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Supplemental Tidal Predictions — Anchorage, Nikishka, Seldovia, and Valdez, Alaska — 1986

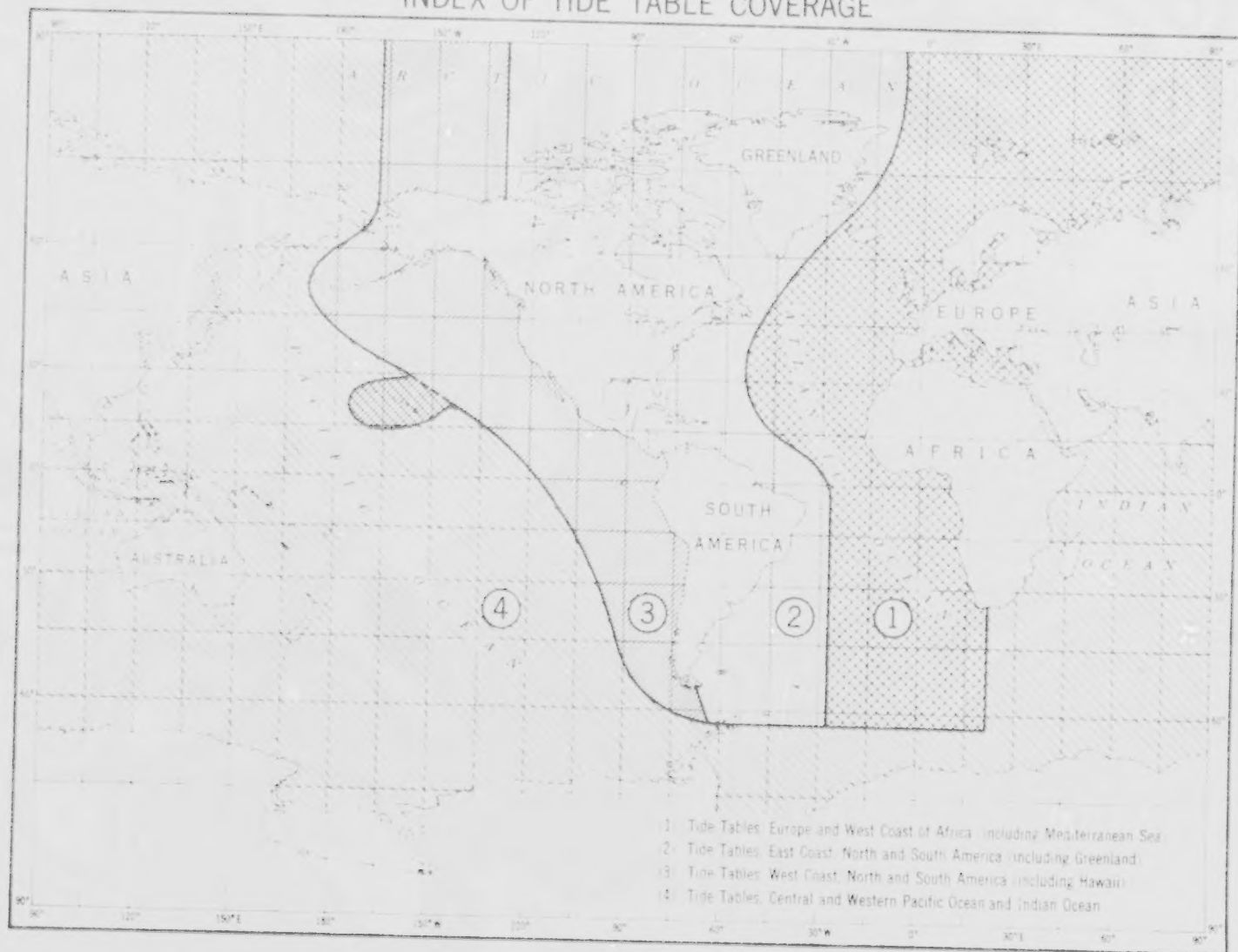
Rockville, Md.
April 1985

ORIGINAL

U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service

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INDEX OF TIDE TABLE COVERAGE





Supplemental Tidal Predictions — Anchorage, Nikishka, Seldovia, and Valdez, Alaska — 1986

Office of Oceanography and Ocean Assessments

Rockville, Md.
April 1985

U. S. DEPARTMENT OF COMMERCE

Malcolm Baldrige, Secretary

National Oceanic and Atmospheric Administration

Anthony J. Calio, Deputy Administrator

National Ocean Service

Paul M. Wolff, Assistant Administrator

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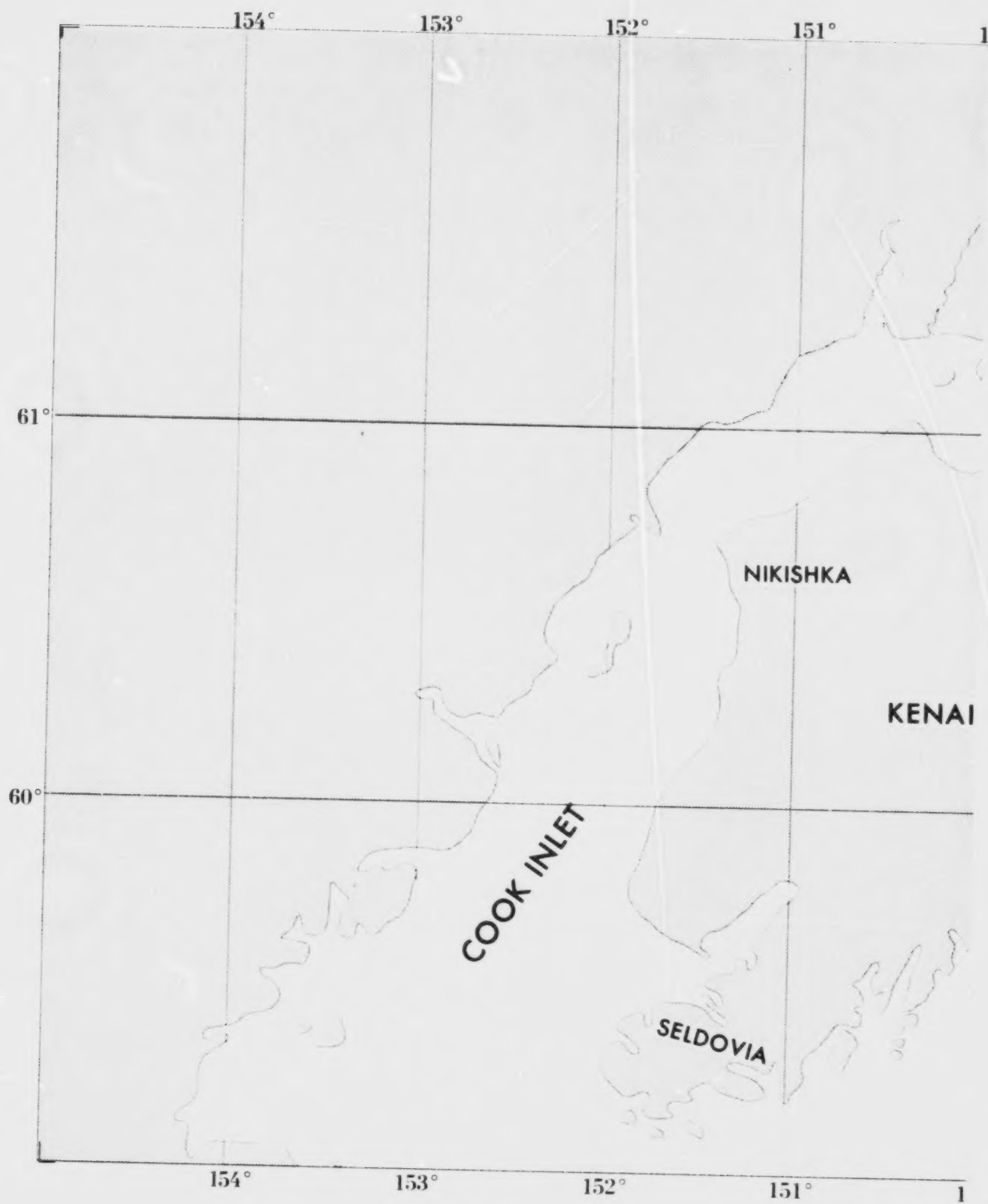
The need for predicted tidal data has always existed. With the rapid expansion of today's marine activities, the need for more detailed data has grown tremendously. This is demonstrated particularly in the area of Cook Inlet, Alaska, where the rapid growth of the State's economy has placed ever-increasing demands and responsibilities upon various marine interests.

Although emphasis is usually given to the predicted times and heights of high and low waters, the intermediate water levels can be equally important. In many instances, ships must attempt to dock during the times of high tide, load or unload, and depart before low tide to avoid the possibility of grounding. Since tankers have increased greatly in size, they are drawing more water and are risking less clearance under their hulls. It is apparent that the need for supplemental data is very real.

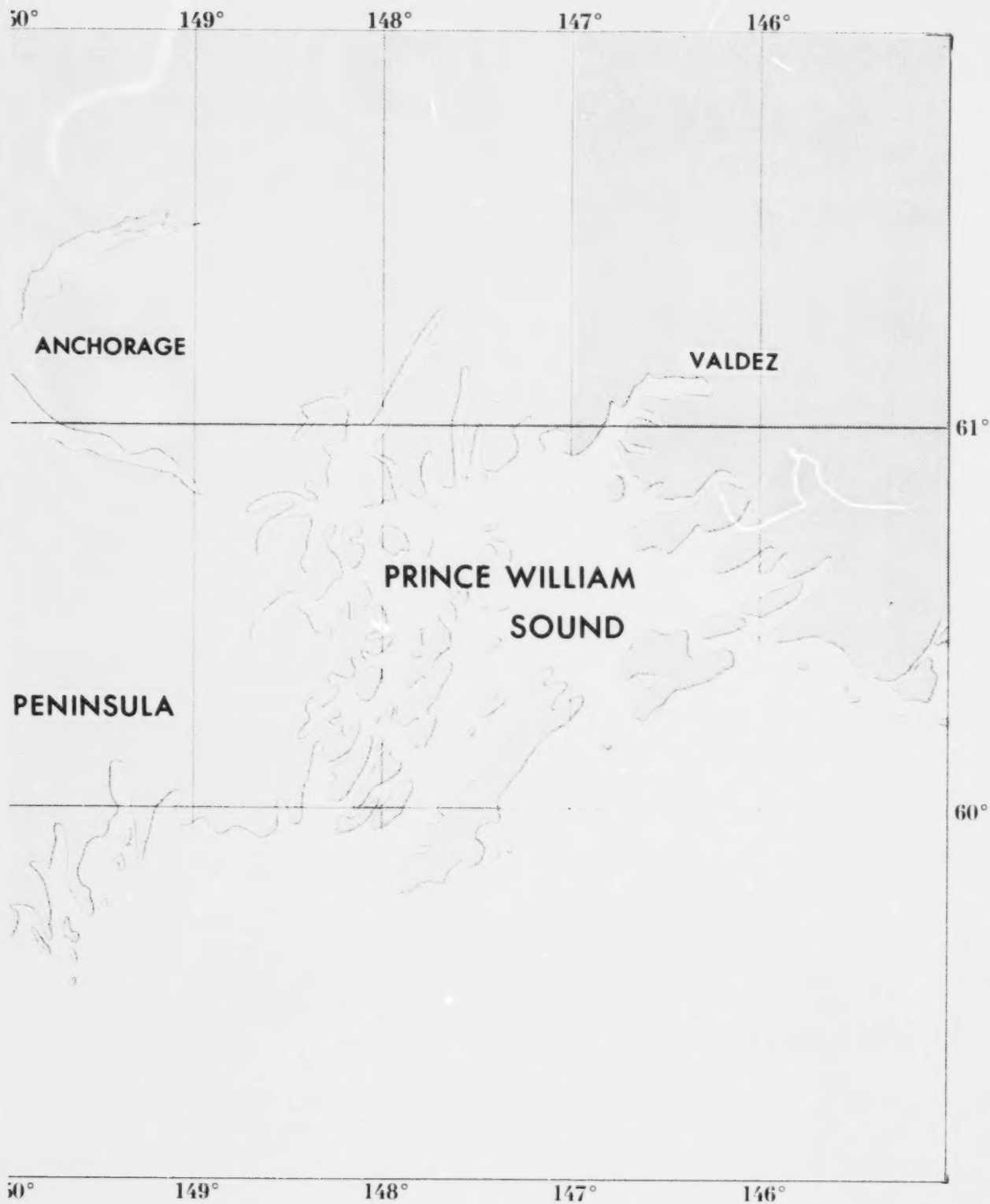
To meet those needs, these pages provide not only the predicted times and heights of high and low waters, but also the predicted hourly heights for the complete year. We hope these data will enable pilots to plan docking activities to take advantage of water depths not indicated by the listing of high and low waters only.

The predicted times and heights of high and low waters are given for each day of the year. High and low waters can be selected from the predictions by comparison of consecutive heights. All times are standard and in the 24-hour or military system. All heights are listed in feet and meters and are reckoned from mean lower low water.

Each day of predicted hourly heights occupies two lines, beginning at midnight (0 hours) and ending at 11 p.m. (23 hours). The data are, of course, referred to the same time meridian and chart datum as the high and low waters.



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For the most part, tide predictions for U.S. reference stations are based upon analyses of tide observations for periods of at least one year. Since the extremes of meteorological conditions have been excluded from the analyses and predictions, the predicted tidal heights should be considered those expected under average weather conditions. The mariner must be cautioned that during times when weather conditions differ from what is considered average for the area, corresponding differences between predicted levels and those actually observed will be noted. Generally, prolonged onshore winds or a low barometric pressure can produce higher levels than predicted, while the opposite can result in lower levels than those predicted.

Exclusive of weather conditions, the astronomical tide is subject to range variations which should be noted. Decreased ranges may be expected near the times when the Moon is in apogee (apogean tides) or in quadrature (neap tides) and increased ranges when the Moon is in perigee (perigean tides) or in a new or full position (spring tides). A larger diurnal range may also result when the Moon is in its maximum declination (tropic tides). The actual range will depend upon the extent to which combinations of these positions reinforce or detract one from the other. The effect of these astronomical lineups is included in the predictions and may be apparent upon inspection.

The mariner may be kept aware of the times of these astronomical events by referring to the astronomical data listed in this book. He should realize, however, that there is generally a time lag from a few hours to several days from the time of the astronomical event to the resultant tide. During times of storm surges or when extreme weather conditions are imminent, it would be prudent for the mariner to keep closely advised by local weather forecasts as they relate to the effects upon tide levels.

ANCHORAGE, ALASKA, 1986

Times and Heights of High and Low Waters

JANUARY										FEBRUARY										MARCH														
Time		Height		Time		Height		Time		Height		Time		Height		Time		Height		Time		Height		Time		Height		Time		Height				
Day	h	m	ft	m	Day	h	m	ft	m	Day	h	m	ft	m	Day	h	m	ft	m	Day	h	m	ft	m	Day	h	m	ft	m	Day	h	m	ft	m
1	0443	-0.3	-0.1		16	0522	1.5	0.5		1	0538	1.9	0.6		16	0554	6.8	2.1		1	0435	0.9	0.3		16	0442	5.1	1.6		17	0517	7.4	2.3	
W	1035	27.7	8.4		Th	1117	28.3	8.6		Sa	1125	29.5	9.0		Su	1132	26.2	8.0		Sa	1011	31.3	9.5		Su	1006	28.2	8.6		Su	1010	28.2	8.6	
	1704	5.0	1.5			1802	4.0	1.2			1828	1.4	0.4			1842	3.1	0.9			1718	-0.8	-0.2			1719	0.9	0.3			2251	27.8	8.5	
	2232	26.3	8.0			2333	24.5	7.5																										
2	0522	0.5	0.2		17	0559	3.8	1.2		2	0002	25.5	7.8		17	0051	22.5	6.9		2	0514	3.1	0.9		17	0517	7.4	2.3		2	0514	3.1	0.9	
Th	1116	27.8	8.5		F	1159	27.2	8.3		Su	0626	4.5	1.4		M	0642	9.7	3.0		Su	1051	30.3	9.2		M	1039	26.4	8.0		Su	1051	30.3	9.2	
	1754	4.5	1.4			1850	4.3	1.3			1215	28.6	8.7			1231	24.2	7.4			1805	-0.1	0.0			1805	-0.1	0.0			1805	-0.1	0.0	
	2325	25.6	7.8								1931	1.5	0.5			1945	3.9	1.2			2348	26.0	7.9			2348	26.0	7.9			2348	26.0	7.9	
3	0607	1.9	0.6		18	0031	22.8	6.9		3	0119	24.1	7.3		18	0222	21.9	6.7		3	0602	6.0	1.8		18	0010	23.7	7.2		3	0602	6.0	1.8	
F	1202	27.9	8.5		Sa	0644	6.3	1.9		M	0730	7.2	2.2		Tu	0821	11.7	3.6		M	1143	28.4	8.7		Tu	0601	9.9	3.0		M	1143	28.4	8.7	
	1851	3.8	1.2			1250	26.0	7.9			1321	27.4	8.4			1359	22.8	6.9			1905	1.2	0.4			1225	24.0	7.3			1905	1.2	0.4	
						1948	4.3	1.3			2045	1.4	0.4			2111	3.9	1.2								1852	3.4	1.0						
4	0025	24.8	7.6		19	0150	21.9	6.7		4	0316	24.1	7.3		19	0418	23.3	7.1		4	0118	24.5	7.5		19	0133	22.7	6.9		4	0118	24.5	7.5	
Sa	0700	3.7	1.1		Su	0748	8.7	2.7		Tu	0855	8.7	2.7		W	0956	11.0	3.4		Tu	0711	8.9	2.7		19	0133	22.7	6.9		4	0118	24.5	7.5	
	1257	27.9	8.5			1348	25.0	7.6			1442	26.8	8.2			1514	22.9	7.0			1255	26.3	8.0			1255	26.3	8.0			1255	26.3	8.0	
	2000	2.8	0.9			2055	3.8	1.2			2207	0.9	0.3			2233	2.6	0.8			2023	2.1	0.6			2023	2.1	0.6			2023	2.1	0.6	
5	0136	24.3	7.4		20	0350	22.4	6.8		5	0439	25.7	7.8		20	0514	25.0	7.6		5	0306	24.7	7.5		20	0312	23.1	7.0		5	0306	24.7	7.5	
Su	0805	5.5	1.7		M	0911	9.9	3.0		W	1014	8.5	2.6		Th	1059	9.2	2.8		W	0851	9.8	3.0		Th	0924	11.5	3.5		W	0851	9.8	3.0	
	1401	27.9	8.5			1450	24.4	7.4			1600	27.2	8.3			1622	24.0	7.3			1435	25.3	7.7			1437	21.8	6.6			1435	25.3	7.7	
	2114	1.3	0.4			2208	2.7	0.8			2331	-0.6	-0.2			2335	0.9	0.3			2159	1.9	0.6			2150	3.9	1.2			2159	1.9	0.6	
6	0317	24.6	7.5		21	0454	24.1	7.3		6	0544	27.5	8.4		21	0555	26.3	8.0		6	0425	26.2	8.0		21	0428	24.7	7.5		6	0425	26.2	8.0	
M	0918	6.6	2.0		Tu	1023	9.7	3.0		Th	1137	7.2	2.2		F	1148	7.3	2.2		Th	1025	8.3	2.5		F	1028	9.1	2.8		Th	1025	8.3	2.5	
	1509	28.3	8.6			1551	24.6	7.5			1707	28.2	8.6			1715	25.8	7.9			1559	26.0	7.9			1553	23.4	7.1			1559	26.0	7.9	
	2225	-0.1	0.0			2313	1.2	0.4													2321	0.0	0.0			2257	2.2	0.7			2321	0.0	0.0	
7	0444	26.1	8.0		22	0542	25.6	7.8		7	0032	-2.4	-0.7		22	0024	-0.5	-0.2		7	0529	27.9	8.5		22	0513	26.2	8.0		7	0529	27.9	8.5	
Tu	1025	6.8	2.1		W	1123	8.7	2.7		F	0632	28.6	8.7		Sa	0625	27.3	8.3		F	1140	5.7	1.7		Sa	1119	6.6	2.0		F	1140	5.7	1.7	
	1609	28.9	8.8			1647	25.3	7.7			1240	5.3	1.6			1232	5.6	1.7			1702	27.5	8.4			1646	25.5	7.8			1702	27.5	8.4	
	2337	-1.5	-0.5								1801	29.3	8.9			1758	27.6	8.4								2348	0.7	0.2						
8	0547	27.6	8.4		23	0006	-0.1	0.0		8	0121	-3.5	-1.1		23	0105	-1.5	-0.5		8	0017	-1.8	-0.5		23	0548	27.5	8.4		8	0017	-1.8	-0.5	
W	1134	6.6	2.0		Th	0621	26.6	8.1		Sa	0715	29.3	8.9		Su	0656	28.2	8.6		Sa	0616	29.0	8.8		Su	1204	4.3	1.3		Sa	0616	29.0	8.8	
	1707	29.7	9.1			1211	7.5	2.3			1330	3.5	1.1			1312	3.9	1.2			1232	3.3	1.0			1732	27.7	8.4			1232	3.3	1.0	
						1733	26.5	8.1			1848	30.7	9.2			1838	29.2	8.9			1753	28.9	8.8								1753	28.9	8.8	
9	0040	-2.8	-0.9		24	0051	-1.1	-0.3		9	0204	-3.7	-1.1		24	0142	-2.1	-0.6		9	0102	-2.5	-0.8		24	0030	-0.3	-0.1		9	0102	-2.5	-0.8	
Th	0640	28.6	8.7		F	0653	27.3	8.3		Su	0751	29.6	9.0		M	0728	29.1	8.9		Su	0655	29.5	9.0		M	0622	28.7	8.7		Su	0655	29.5	9.0	
	1240	5.8	1.8			1253	6.4	2.0			1413	2.2	0.7			1353	2.4	0.7			1317	1.5	0.5			1248	2.2	0.7			1317	1.5	0.5	
	1800	30.4	9.3			1815	27.7	8.4			1932	30.9	9.4			1918	30.4	9.3			1838	29.9	9.1			1815	29.5	9.0			1838	29.9	9.1	
10	0133	-3.8	-1.2		25	0131	-1.7	-0.5		10	0242	-3.2	-1.0		25	0218	-2.3	-0.7		10	0142	-2.3	-0.7		25	0110	-0.9	-0.3		10	0142	-2.3	-0.7	
F	0726	29.2	8.9		Sa	0722	27.9	8.5		M	0824	29.9	9.1		Tu	0800	29.9	9.1		M	0726	29.8	9.1		Tu	0653	29.9	9.1		M	0726	29.8	9.1	
	1335	4.7	1.4			1332	5.4	1.6			1454	1.4	0.4			1433	1.0	0.3			1357	0.5	0.2			1330	0.3	0.1			1357	0.5	0.2	
	1851	31.0	9.4			1857	28.8	8.8			2015	30.9	9.4			1958	30.9	9.4			1918	30.5	9.3			1856	30.8	9.4			1918	30.5	9.3	
11	0219	-4.1	-1.2		26	0207	-2.1	-0.6		11	0315	-2.3	-0.7		26	0251	-2.1	-0.6		11	0217	-1.5	-0.5		26	0147	-1.2	-0.4		11	0217	-1.5	-0.5	
Sa	0806	29.5	9.0		Su	0757	28.4	8.7		Tu	0854	30.1	9.2		W	0831	30.6	9.3		Tu	0753	30.1	9.2		W	0724	31.0	9.4		Tu	0753	30.1	9.2	
	1424	3.8	1.2			1410	4.5	1.4			1533	1.1	0.3			1513	0.0	0.0			1434	0.0	0.0			1412	-1.4	-0.4			1434	0.0	0.0	
	1941	31.1	9.5			1935	29.4	9.0			2056	30.2	9.2			2038	30.9	9.4			1959	30.6	9.3			1939	31.4	9.6			1959	30.6	9.3	
12	0302	-3.9	-1.2		27	0242	-2.2	-0.7	</																									

Times and Heights of High and Low Waters

APRIL				MAY				JUNE			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
Day	h m	ft	m	Day	h m	ft	m	Day	h m	ft	m
1 0546	7.4	2.3		16 0535	9.6	2.9		1 0057	26.9	8.2	
Tu 1125	27.5	8.4		W 1056	23.8	7.3		Th 0716	8.2	2.5	
1847	1.3	0.4		1818	2.8	0.9		1248	24.7	7.5	
								1948	2.4	0.7	
2 0115	25.6	7.8		17 0053	23.9	7.3		2 0213	26.8	8.2	
W 0712	9.5	2.9		Th 0635	11.0	3.4		F 0841	6.7	2.0	
1250	25.2	7.7		1211	21.9	6.7		1416	24.3	7.4	
2009	2.6	0.8		1918	4.2	1.3		2107	2.9	0.9	
3 0244	25.7	7.8		18 0209	23.9	7.3		3 0325	27.4	8.4	
Th 0855	8.8	2.7		F 0827	11.0	3.4		Sa 0956	4.3	1.3	
1433	24.6	7.5		1351	21.7	6.6		1532	25.0	7.6	
2143	2.4	0.7		2050	4.6	1.4		2223	2.6	0.8	
4 0401	27.0	8.2		19 0324	24.8	7.6		4 0425	28.2	8.6	
F 1020	6.3	1.9		Sa 0948	8.3	2.5		Su 1059	1.9	0.6	
1549	25.6	7.8		1511	23.2	7.1		1636	26.1	8.0	
2259	0.9	0.3		2206	3.5	1.1		2321	2.3	0.7	
5 0503	28.3	8.6		20 0420	26.2	8.0		5 0510	28.6	8.7	
Sa 1124	3.4	1.0		Su 1041	5.5	1.7		M 1149	0.1	0.0	
1652	27.0	8.2		1609	25.3	7.7		1729	27.1	8.3	
2352	-0.2	-0.1		2302	2.3	0.7					
6 0548	29.1	8.9		21 0502	27.7	8.4		6 0006	2.6	0.8	
Su 1214	1.2	0.4		M 1132	2.9	0.9		Tu 0545	28.7	8.7	
1742	28.2	8.6		1702	27.4	8.4		1233	-0.7	-0.2	
				2348	1.5	0.5		1812	27.8	8.5	
7 0037	-0.4	-0.1		22 0539	29.1	8.9		7 0043	3.4	1.0	
M 0624	29.4	9.0		Tu 1219	0.5	0.2		W 0614	28.8	8.8	
1257	0.0	0.0		1750	29.1	8.9		1313	-1.0	-0.3	
1824	29.1	8.9						1851	28.3	8.6	
8 0115	0.3	0.1		23 0033	1.0	0.3		8 0114	4.1	1.2	
Tu 0653	29.6	9.0		W 0611	30.5	9.3		Th 0637	29.3	8.9	
1335	-0.6	-0.2		1305	-1.5	-0.5		1347	-1.0	-0.3	
1904	29.6	9.0		1837	30.3	9.2		1927	28.6	8.7	
9 0147	1.2	0.4		24 0115	0.9	0.3		9 0143	4.6	1.4	
W 0716	30.0	9.1		Th 0646	31.7	9.7		F 0702	29.7	9.1	
1411	-0.7	-0.2		1352	-3.1	-0.9		1418	-0.9	-0.3	
1941	29.8	9.1		1922	30.8	9.4		2000	28.6	8.7	
10 0214	2.1	0.6		25 0155	1.1	0.3		10 0211	5.0	1.5	
Th 0739	30.4	9.3		F 0722	32.7	10.0		Sa 0733	29.7	9.1	
1442	-0.7	-0.2		1436	-4.1	-1.2		1449	-0.9	-0.3	
2016	29.6	9.0		2009	30.9	9.4		2036	28.4	8.7	
11 0241	2.9	0.9		26 0236	1.8	0.5		11 0243	5.4	1.6	
F 0806	30.5	9.3		Sa 0800	33.0	10.1		Su 0801	29.1	8.9	
1513	-0.7	-0.2		1519	-4.3	-1.3		1520	-0.8	-0.2	
2051	29.0	8.8		2054	30.4	9.3		2110	27.9	8.5	
12 0309	3.7	1.1		27 0318	2.8	0.9		12 0316	6.0	1.8	
Sa 0833	30.0	9.1		Su 0840	32.6	9.9		M 0832	28.2	8.6	
1543	-0.6	-0.2		1603	-3.7	-1.1		1552	-0.5	-0.2	
2125	28.2	8.6		2145	29.6	9.0		2150	27.2	8.3	
13 0339	4.8	1.5		28 0400	4.2	1.3		13 0352	6.8	2.1	
Su 0900	29.1	8.9		M 0924	31.3	9.5		Tu 0904	27.0	8.2	
1615	-0.4	-0.1		1648	-2.5	-0.8		1627	0.0	0.0	
2203	27.2	8.3		2240	28.6	8.7		2232	26.3	8.0	
14 0413	6.2	1.9		29 0448	5.9	1.8		14 0432	7.7	2.3	
M 0930	27.8	8.5		Tu 1013	29.2	8.9		W 0946	25.5	7.8	
1650	0.3	0.1		1736	-0.9	-0.3		1706	0.9	0.3	
2248	26.0	7.9		2343	27.5	8.4		2319	25.6	7.8	
15 0448	7.8	2.4		30 0551	7.6	2.3		15 0517	8.5	2.6	
Tu 1003	26.0	7.9		W 1117	26.7	8.1		Th 1040	23.8	7.3	
1730	1.4	0.4		1834	1.0	0.3		1750	1.9	0.6	
2341	24.7	7.5									

Time meridian 135° W. 0000 is midnight. 1200 is noon.
Heights are referred to mean lower low water which is the chart datum of soundings.

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ANCHORAGE, ALASKA, 1986

Times and Heights of High and Low Waters

JULY

Time			Time		
Day		Height	Day		Height
h m	ft	m	h m	ft	m
1 0228	26.1	8.0	16 0119	27.6	8.4
Tu 0935	2.7	0.8	W 0834	1.5	0.5
1551	23.3	7.1	1421	23.9	7.3
2127	8.0	2.4	2034	6.7	2.0
2 0322	25.7	7.8	17 0226	27.7	8.4
W 1041	1.6	0.5	Th 0945	0.3	0.1
1659	24.6	7.5	1604	24.9	7.6
2240	8.4	2.6	2148	7.1	2.2
3 0412	25.6	7.8	18 0332	28.2	8.6
Th 1133	0.4	0.1	F 1055	-0.8	-0.2
1747	25.7	7.8	1715	26.5	8.1
2337	8.1	2.5	2254	6.8	2.1
4 0454	26.0	7.9	19 0433	29.1	8.9
F 1219	-0.4	-0.1	Sa 1206	-2.1	-0.6
1828	26.5	8.1	1811	27.8	8.5
5 0019	7.6	2.3	20 0003	6.1	1.9
Sa 0535	26.7	8.1	Su 0531	30.0	9.1
1301	-0.9	-0.3	1305	-3.4	-1.0
1859	27.0	8.2	1901	28.6	8.7
6 0059	7.0	2.1	21 0107	4.9	1.5
Su 0615	27.4	8.4	M 0625	30.8	9.4
1338	-1.3	-0.4	1355	-4.2	-1.3
1931	27.4	8.4	1943	29.1	8.9
7 0136	6.4	2.0	22 0200	3.6	1.1
M 0653	27.9	8.5	Tu 0717	31.2	9.5
1414	-1.4	-0.4	1441	-4.4	-1.3
2003	27.7	8.4	2024	29.4	9.0
8 0211	5.8	1.8	23 0248	2.5	0.8
Tu 0733	28.1	8.6	W 0806	31.2	9.5
1449	-1.4	-0.4	1521	-3.9	-1.2
2038	27.8	8.5	2102	29.7	9.1
9 0248	5.4	1.6	24 0334	1.8	0.5
W 0810	27.9	8.5	Th 0855	30.6	9.3
1521	-1.2	-0.4	1558	-2.9	-0.9
2113	27.8	8.5	2139	29.9	9.1
10 0326	5.0	1.5	25 0418	1.7	0.5
Th 0849	27.5	8.4	F 0942	29.4	9.0
1552	-0.9	-0.3	1635	-1.3	-0.4
2148	27.7	8.4	2221	29.7	9.1
11 0406	4.7	1.4	26 0501	1.9	0.6
F 0930	26.9	8.2	Sa 1029	27.6	8.4
1626	-0.5	-0.2	1709	0.7	0.2
2221	27.7	8.4	2300	29.0	8.8
12 0448	4.3	1.3	27 0546	2.5	0.8
Sa 1013	26.2	8.0	Su 1119	25.7	7.8
1701	0.2	0.1	1743	3.1	0.9
2253	27.8	8.5	2341	27.9	8.5
13 0533	3.7	1.1	28 0631	3.1	0.9
Su 1101	25.5	7.8	M 1215	23.8	7.3
1741	1.4	0.4	1823	5.8	1.8
2335	27.8	8.5			
14 0623	3.2	1.0	29 0028	26.4	8.0
M 1157	24.8	7.6	Tu 0726	3.6	1.1
1829	3.1	0.9	1327	22.4	6.8
			1918	8.5	2.6
15 0021	27.8	8.5	30 0127	25.0	7.6
Tu 0723	2.5	0.8	W 0829	3.7	1.1
1301	24.1	7.3	1515	22.4	6.8
1925	5.2	1.6	2039	10.2	3.1
			31 0227	24.1	7.3
			Th 0940	3.1	0.9
			1631	23.9	7.3
			2202	10.2	3.1

AUGUST

Time			Time		
Day		Height	Day		Height
h m	ft	m	h m	ft	m
1 0329	24.0	7.3	16 0317	27.0	8.2
F 1054	1.8	0.5	Sa 1044	0.2	0.1
1726	25.4	7.7	1707	26.9	8.2
2310	9.0	2.7	2251	7.5	2.3
2 0430	24.7	7.5	17 0432	28.1	8.6
Sa 1150	0.4	0.1	Su 1158	-1.5	-0.5
1808	26.5	8.1	1803	28.4	8.7
3 0000	7.7	2.3	18 0006	5.6	1.7
Su 0520	25.8	7.9	M 0531	29.5	9.0
1236	-0.8	-0.2	1253	-3.0	-0.9
1839	27.1	8.3	1848	29.2	8.9
4 0040	6.4	2.0	19 0102	3.6	1.1
M 0602	27.1	8.3	Tu 0622	30.6	9.3
1317	-1.5	-0.5	1340	-3.7	-1.1
1909	27.7	8.4	1927	29.7	9.1
5 0120	5.3	1.6	20 0150	1.9	0.6
Tu 0643	28.2	8.6	W 0709	31.4	9.6
1354	-1.8	-0.5	1420	-3.5	-1.1
1940	28.2	8.6	2000	30.1	9.2
6 0156	4.4	1.3	21 0234	0.8	0.2
W 0722	29.0	8.8	Th 0754	31.5	9.6
1428	-1.8	-0.5	1458	-2.6	-0.8
2013	28.7	8.7	2032	30.4	9.3
7 0234	3.5	1.1	22 0314	0.3	0.1
Th 0759	29.3	8.9	F 0836	31.0	9.4
1500	-1.6	-0.5	1531	-1.3	-0.4
2046	29.0	8.8	2105	30.5	9.3
8 0312	2.8	0.9	23 0353	0.3	0.1
F 0836	29.1	8.9	Sa 0918	29.8	9.1
1530	-1.1	-0.3	1603	0.3	0.1
2115	29.2	8.9	2136	30.2	9.2
9 0351	2.2	0.7	24 0431	0.8	0.2
Sa 0915	28.6	8.7	Su 1000	28.2	8.6
1601	-0.5	-0.2	1631	2.2	0.7
2145	29.4	9.0	2208	29.4	9.0
10 0431	1.7	0.5	25 0506	1.5	0.5
Su 0957	27.9	8.5	M 1040	26.4	8.0
1636	0.4	0.1	1701	4.4	1.3
2218	29.5	9.0	2237	28.1	8.6
11 0513	1.3	0.4	26 0545	2.3	0.7
M 1040	26.9	8.2	Tu 1130	24.6	7.5
1714	2.0	0.6	1736	7.0	2.1
2256	29.3	8.9	2311	26.3	8.0
12 0559	1.2	0.4	27 0627	3.1	0.9
Tu 1133	25.7	7.8	W 1236	23.0	7.0
1757	4.1	1.2	1823	9.7	3.0
2341	28.6	8.7			
13 0654	1.3	0.4	28 0004	24.2	7.4
W 1239	24.4	7.4	Th 0723	4.0	1.2
1852	6.7	2.0	1402	22.4	6.8
			1947	11.9	3.6
14 0041	27.5	8.4	29 0137	22.6	6.9
Th 0802	1.5	0.5	F 0844	4.2	1.3
1419	23.9	7.3	1557	23.6	7.2
2009	8.6	2.6	2137	11.2	3.4
15 0155	26.8	8.2	30 0259	22.6	6.9
F 0919	1.1	0.3	Sa 1009	3.1	0.9
1559	25.1	7.7	1654	25.4	7.7
2133	8.6	2.6	2245	9.1	2.8
			31 0409	23.8	7.3
			Su 1116	1.3	0.4
			1737	26.7	8.1
			2335	7.0	2.1

SEPTEMBER

Time			Time		
Day		Height	Day		Height
h m	ft	m	h m	ft	m
1 0502	25.6	7.8	16 0001	3.5	1.1
M 1207	-0.2	-0.1	Tu 0526	29.4	9.0
1811	27.6	8.4	1236	-2.1	-0.6
			1827	30.1	9.2
2 0017	5.3	1.6	17 0052	1.4	0.4
Tu 0544	27.4	8.4	W 0615	30.5	9.3
1249	-1.1	-0.3	1318	-2.2	-0.7
1840	28.4	8.7	1901	30.4	9.3
3 0058	3.8	1.2	18 0135	0.1	0.0
W 0622	28.9	8.8	Th 0657	31.2	9.5
1326	-1.5	-0.5	1356	-1.4	-0.4
1909	29.2	8.9	1930	30.7	9.4
4 0137	2.4	0.7	19 0216	-0.5	-0.2
Th 0702	30.0	9.1	F 0738	31.2	9.5
1400	-1.4	-0.4	1430	-0.2	-0.1
1940	30.0	9.1	1957	31.0	9.4
5 0215	1.2	0.4	20 0252	-0.6	-0.2
F 0739	30.6	9.3	Sa 0857	30.8	9.4
1433	-1.1	-0.3	1459	1.2	0.4
2011	30.5	9.3	2026	31.0	9.4
6 0254	0.3	0.1	21 0326	-0.3	-0.1
Sa 0819	30.6	9.3	Su 0857	29.9	9.1
1504	-0.5	-0.2	1526	2.6	0.8
2040	30.9	9.4	2053	30.5	9.3
7 0333	-0.3	-0.1	22 0359	0.2	0.1
Su 0859	30.0	9.1	M 0933	28.6	8.7
1536	0.4	0.1	1555	4.1	1.2
2110	31.1	9.5	2121	29.6	9.0
8 0413	-0.6	-0.2	23 0431	0.8	0.2
M 0939	29.1	8.9	Tu 1011	27.1	8.3
1611	1.7	0.5	1626	5.9	1.8
2144	31.0	9.4	2147	28.2	8.6
9 0453	-0.5	-0.2	24 0506	1.5	0.5
Tu 1026	27.9	8.5	W 1056	25.6	7.8
1649	3.5	1.1	1701	8.0	2.4
2224	30.2	9.2	2219	26.3	8.0
10 0538	0.1	0.0	25 0545	2.6	0.8
W 1120	26.3	8.0	Th 1157	24.1	7.3
1733	5.9	1.8	1746	10.3	3.1
2309	28.7	8.7	2304	24.0	7.3
11 0631	1.1	0.3	26 0634	3.8	1.2
Th 1231	24.9	7.6	F 1313	23.3	7.1
1830	8.4	2.6	1850	12.2	3.7
12 0013	26.8	8.2	27 0028	21.8	6.6
F 0740	2.1	0.6	Sa 0747	4.9	1.5
1418	24.6	7.5	1445	23.7	7.2
2001	9.9	3.0	2108	11.6	3.5
13 0145	25.6	7.8	28 0224	21.7	6.6
Sa 0906	2.1	0.6	Su 0927	4.3	1.3
1546	26.1	8.0	1609	25.3	7.7
2135	8.7	2.7	2214	8.8	2.7
14 0321	26.2	8.0	29 0340	23.3	7.1
Su 1038	0.9	0.3	M 1036	2.6	0.8
1652	27.9	8.5	1654	26.8	8.2
2259	6.2	1.9	2305	6.2	1.9
15 0430	27.8	8.5	30 0435	25.4	7.7
M 1144	-0.9	-0.3	Tu 1129	1.1	0.3
1744	29.3	8.9	1731	28.0	8.5
			2348	4.0	1.2

Time meridian 135° W. 0000 is midnight. 1200 is noon.
 Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

Times and Heights of High and Low Waters

OCTOBER				NOVEMBER				DECEMBER							
Time		Height		Time		Height		Time		Height		Time		Height	
Day	h m	ft	m	Day	h m	ft	m	Day	h m	ft	m	Day	h m	ft	m
1	0518	27.5	8.4	16	0035	-0.3	-0.1	1	0043	-1.0	-0.3	16	0132	-1.2	-0.4
W	1213	0.2	0.1	Th	0603	29.7	9.1	Sa	0617	29.9	9.1	Su	0714	29.0	8.8
	1803	29.1	8.9		1253	0.5	0.2		1252	2.1	0.6		1331	5.5	1.7
					1829	30.5	9.3		1824	31.8	9.7		1848	30.0	9.1
2	0030	2.2	0.7	17	0117	-1.0	-0.3	2	0128	-2.5	-0.8	17	0207	-0.9	-0.3
Th	0558	29.2	8.9	F	0645	30.2	9.2	Su	0701	30.6	9.3	M	0749	29.0	8.8
	1251	-0.1	0.0		1329	1.6	0.5		1331	2.3	0.7		1358	5.9	1.8
	1833	30.2	9.2		1856	30.7	9.4		1856	32.7	10.0		1915	30.0	9.1
3	0111	0.5	0.2	18	0154	-1.1	-0.3	3	0213	-3.4	-1.0	18	0238	-0.6	-0.2
F	0638	30.4	9.3	Sa	0724	30.3	9.2	M	0745	30.7	9.4	Tu	0821	28.8	8.8
	1328	0.0	0.0		1400	2.8	0.9		1412	2.8	0.9		1427	6.2	1.9
	1902	31.2	9.5		1921	30.9	9.4		1933	33.1	10.1		1946	29.5	9.0
4	0151	-0.9	-0.3	19	0228	-0.9	-0.3	4	0256	-3.7	-1.1	19	0308	-0.3	-0.1
Sa	0719	31.1	9.5	Su	0801	30.0	9.1	Tu	0831	30.4	9.3	W	0857	28.3	8.6
	1402	0.4	0.1		1426	3.8	1.2		1452	3.6	1.1		1501	6.6	2.0
	1933	32.0	9.8		1947	30.9	9.4		2013	32.8	10.0		2017	28.5	8.7
5	0233	-1.9	-0.6	20	0300	-0.5	-0.2	5	0339	-3.3	-1.0	20	0339	0.1	0.0
Su	0800	31.1	9.5	M	0836	29.4	9.0	Th	0934	27.6	8.4	Th	0934	27.6	8.4
	1437	1.1	0.3		1453	4.7	1.4		1538	7.2	2.2		1538	7.2	2.2
	2004	32.4	9.9		2014	30.3	9.2		2049	27.3	8.3		2049	27.3	8.3
6	0314	-2.4	-0.7	21	0330	-0.1	0.0	6	0424	-2.3	-0.7	21	0414	0.6	0.2
M	0843	30.6	9.3	Tu	0912	28.5	8.7	Th	1009	28.8	8.8	F	1013	26.9	8.2
	1513	2.0	0.6		1523	5.8	1.8		1621	6.0	1.8		1616	7.9	2.4
	2038	32.4	9.9		2041	29.2	8.9		2142	30.0	9.1		2126	25.9	7.9
7	0354	-2.3	-0.7	22	0402	0.4	0.1	7	0509	-0.9	-0.3	22	0451	1.3	0.4
Tu	0928	29.6	9.0	W	0950	27.5	8.4	F	1109	27.9	8.5	Sa	1058	26.2	8.0
	1549	3.4	1.0		1557	7.0	2.1		1717	7.4	2.3		1701	8.6	2.6
	2115	31.8	9.7		2111	27.8	8.5		2243	27.7	8.4		2217	24.2	7.4
8	0436	-1.6	-0.5	23	0435	1.1	0.3	8	0604	0.7	0.2	23	0533	2.3	0.7
W	1016	28.4	8.7	Th	1034	26.3	8.0	Sa	1218	27.3	8.3	Su	1154	25.6	7.8
	1629	5.2	1.6		1635	8.5	2.6		1830	8.2	2.5		1754	9.1	2.8
	2158	30.4	9.3		2144	26.1	8.0						2322	22.8	6.9
9	0521	-0.4	-0.1	24	0514	2.0	0.6	9	0002	25.7	7.8	24	0620	2.5	1.1
Th	1112	27.0	8.2	F	1125	25.2	7.7	Su	0711	2.1	0.6	M	1255	25.4	7.7
	1717	7.3	2.2		1720	10.0	3.0		1335	27.3	8.3		1900	8.9	2.7
	2248	28.2	8.6		2232	23.9	7.3		1958	7.2	2.2				
10	0613	1.2	0.4	25	0559	3.3	1.0	10	0138	24.9	7.6	25	0038	22.2	6.8
F	1231	25.9	7.9	Sa	1233	24.5	7.5	M	0825	2.8	0.9	Tu	0718	4.7	1.4
	1825	9.3	2.8		1818	11.2	3.4		1447	27.9	8.5		1400	25.7	7.8
					2348	21.9	6.7		2118	4.9	1.5		2025	7.4	2.3
11	0002	25.9	7.9	26	0658	4.6	1.4	11	0257	25.4	7.7	26	0155	22.7	6.9
Sa	0726	2.5	0.8	Su	1346	24.4	7.4	Tu	0940	3.0	0.9	W	0833	5.3	1.6
	1402	26.0	7.9		2003	11.1	3.4		1551	28.7	8.7		1458	26.5	8.1
	2008	9.4	2.9						2228	2.3	0.7		2137	4.8	1.5
12	0150	25.0	7.6	27	0134	21.5	6.6	12	0409	26.4	8.0	27	0307	24.0	7.3
Su	0853	2.6	0.8	M	0827	5.1	1.6	W	1049	2.8	0.9	Th	0943	5.2	1.6
	1522	27.2	8.3		1500	25.3	7.7		1641	29.3	8.9		1548	27.6	8.1
	2137	7.0	2.1		2131	8.4	2.6		2326	0.1	0.0		2233	2.2	0.7
13	0314	25.9	7.9	28	0254	22.8	6.9	13	0507	27.5	8.4	28	0414	25.7	7.8
M	1017	1.6	0.5	Tu	0948	4.1	1.2	Th	1142	3.0	0.9	F	1038	4.8	1.5
	1628	28.7	8.7		1559	26.7	8.1		1723	29.4	9.0		1630	28.9	8.8
	2249	3.9	1.2		2225	5.6	1.7						2324	0.0	0.0
14	0422	27.5	8.4	29	0356	24.8	7.6	14	0013	-1.0	-0.3	29	0510	27.3	8.3
Tu	1121	0.4	0.1	W	1042	3.1	0.9	F	0555	28.3	8.6	Sa	1128	4.5	1.4
	1718	29.8	9.1		1641	28.0	8.5		1225	3.7	1.1		1707	30.2	9.2
	2347	1.3	0.4		2312	3.0	0.9		1755	29.5	9.0				
15	0518	28.9	8.8	30	0446	26.9	8.2	15	0055	-1.4	-0.4	30	0016	-1.9	-0.6
W	1211	-0.1	0.0	Th	1129	2.4	0.7	Sa	0637	28.7	8.7	Su	0603	28.6	8.7
	1758	30.3	9.2		1718	29.3	8.9		1302	4.7	1.4		1217	4.3	1.3
					2358	0.8	0.2		1822	29.7	9.1		1747	31.5	9.6
				31	0531	28.6	8.7					31	0016	-1.9	-0.6
				F	1211	2.2	0.7						0603	28.6	8.7
					1752	30.6	9.3						1217	4.3	1.3
													1747	31.5	9.6

Time meridian 135° W. 0000 is midnight. 1200 is noon.
 Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

NIKISHKA, ALASKA, 1986

Times and Heights of High and Low Waters

JANUARY

FEBRUARY

MARCH

Time		Height		Time		Height		Time		Height		Time		Height		Time		Height					
Day		h	m	ft	m	Day		h	m	ft	m	Day		h	m	ft	m	Day		h	m	ft	m
1	0149	-0.5	-0.2			16	0229	1.8	0.5			1	0133	1.1	0.3			16	0142	5.3	1.6		
W	0807	19.7	6.0			Th	0852	20.3	6.2			Sa	0725	22.2	6.8			Su	0728	19.1	5.8		
	1417	4.7	1.4				1511	3.9	1.2				1415	-0.3	-0.1				1433	2.3	0.7		
	1949	18.5	5.6				2108	17.0	5.2				2017	18.7	5.7				2055	15.9	4.8		
2	0231	0.9	0.3			17	0315	4.1	1.2			2	0218	3.7	1.1			17	0218	7.5	2.3		
Th	0852	19.5	5.9			F	0940	19.3	5.9			Su	0805	21.0	6.4			M	0757	17.5	5.3		
	1511	4.5	1.4				1611	4.4	1.3				1514	0.9	0.3				1529	3.8	1.1		
	2055	17.3	5.3				2220	15.6	4.8				2130	16.9	5.2				2211	14.6	4.5		
3	0321	2.5	0.8			18	0407	6.4	2.0			3	0313	6.3	1.9			18	0308	9.5	2.9		
F	0943	19.4	5.9			Sa	1033	18.3	5.6			M	0900	19.5	5.9			Tu	0834	15.8	4.8		
	1615	4.2	1.3				1721	4.6	1.4				1628	2.1	0.6				1648	4.8	1.5		
	2215	16.5	5.0				2333	14.9	4.5				2257	15.9	4.8				2340	14.1	4.3		
4	0420	4.4	1.3			19	0513	8.3	2.5			4	0433	8.4	2.6			19	0454	10.8	3.3		
Sa	1036	19.5	5.9			Su	1131	17.6	5.4			Tu	1024	18.1	5.5			W	1045	14.6	4.5		
	1727	3.4	1.0				1833	4.2	1.3				1753	2.3	0.7				1815	4.6	1.4		
	2333	16.4	5.0																				
5	0529	5.9	1.8			20	0049	15.1	4.6			5	0028	16.2	4.9			20	0100	14.8	4.5		
Su	1133	19.8	6.0			M	0628	9.4	2.9			W	0609	9.0	2.7			Th	0633	10.4	3.2		
	1836	2.0	0.6				1231	17.3	5.3				1159	17.7	5.4				1225	14.9	4.5		
							1939	3.2	1.0				1913	1.5	0.5				1923	3.5	1.1		
6	0049	17.0	5.2			21	0158	15.9	4.8			6	0145	17.5	5.3			21	0158	16.1	4.9		
M	0639	6.7	2.0			Tu	0737	9.5	2.9			Th	0729	7.9	2.4			F	0742	8.7	2.7		
	1233	20.5	6.2				1326	17.6	5.4				1318	18.5	5.6				1329	16.2	4.9		
	1939	0.3	0.1				2030	2.0	0.6				2015	0.1	0.0				2014	1.9	0.6		
7	0153	18.2	5.5			22	0253	17.0	5.2			7	0241	19.1	5.8			22	0238	17.5	5.3		
Tu	0745	6.8	2.1			W	0832	9.0	2.7			F	0832	5.9	1.8			Sa	0828	6.5	2.0		
	1329	21.3	6.5				1414	18.1	5.5				1422	19.8	6.0				1416	17.8	5.4		
	2035	-1.4	-0.4				2112	0.7	0.2				2104	-1.1	-0.3				2053	0.4	0.1		
8	0253	19.6	6.0			23	0338	18.0	5.5			8	0325	20.5	6.2			23	0309	18.9	5.8		
W	0843	6.3	1.9			Th	0917	8.1	2.5			Sa	0920	3.8	1.2			Su	0909	4.2	1.3		
	1422	22.2	6.8				1456	18.9	5.8				1512	21.0	6.4				1459	19.4	5.9		
	2126	-2.8	-0.9				2150	-0.4	-0.1				2146	-2.0	-0.6				2128	-0.8	-0.2		
9	0342	20.8	6.3			24	0413	18.9	5.8			9	0358	21.6	6.6			24	0338	20.3	6.2		
Th	0936	5.5	1.7			F	0954	7.0	2.1			Su	1003	1.9	0.6			M	0945	1.8	0.5		
	1512	23.0	7.0				1533	19.8	6.0				1554	21.8	6.6				1536	20.4	6.4		
	2214	-3.8	-1.2				2226	-1.5	-0.5				2224	-2.3	-0.7				2202	-1.7	-0.5		
10	0431	21.7	6.6			25	0446	19.7	6.0			10	0432	22.4	6.8			25	0405	21.7	6.6		
F	1024	4.6	1.4			Sa	1031	5.7	1.7			Tu	1041	0.5	0.2			Tu	1021	-0.3	-0.1		
	1602	23.5	7.2				1611	20.6	6.3				1632	22.2	6.8				1613	22.0	6.7		
	2259	-4.2	-1.3				2300	-2.3	-0.7				2258	-2.1	-0.6				2238	-2.1	-0.6		
11	0515	22.3	6.8			26	0518	20.4	6.2			11	0502	22.8	6.9			26	0434	22.9	7.0		
Sa	1111	3.7	1.1			Su	1109	4.5	1.4			W	1119	-0.5	-0.2			W	1100	-2.0	-0.6		
	1651	23.5	7.2				1645	21.3	6.5				1710	22.2	6.8				1652	22.7	6.9		
	2342	-4.1	-1.2				2334	-2.8	-0.9				2332	-1.5	-0.5				2313	-1.9	-0.6		
12	0557	22.5	6.9			27	0546	21.0	6.4			12	0532	22.9	7.0			27	0504	23.7	7.2		
Su	1157	3.1	0.9			M	1145	3.3	1.0			W	1155	-0.9	-0.3			Th	1129	-3.1	-0.9		
	1737	22.9	7.0				1721	21.6	6.6				1747	21.7	6.6				1734	22.7	6.9		
																			2351	-1.0	-0.3		
13	0024	-3.3	-1.0			28	0009	-2.9	-0.9			13	0005	-0.3	-0.1			28	0536	24.0	7.3		
M	0640	22.4	6.8			Tu	0618	21.4	6.5			Th	0602	22.5	6.9			F	1221	-3.5	-1.1		
	1243	2.8	0.9				1227	2.4	0.7				1230	-0.8	-0.2				1819	22.0	6.7		
	1826	21.9	6.7				1803	21.5	6.6				1827	20.7	6.3								
14	0107	-2.1	-0.6			29	0043	-2.4	-0.7			14	0037	1.2	0.4			29	0030	0.6	0.2		
Tu	0722	22.0	6.7			W	0651	21.6	6.6			F	0630	21.7	6.6			Sa	0613	23.6	7.2		
	1328	2.9	0.9				1306	1.8	0.5				1309	-0.2	-0.1				1307	-2.9	-0.9		
	1915	20.5	6.2				1845	20.9	6.4				1909	19.4	5.9				1911	20.7	6.3		
15	0149	-0.3	-0.1			30	0120	-1.3	-0.4			15	0109	3.1	0.9			30	0112	2.6	0.8		
W	0805	21.3	6.5			Th	0727	21.6	6.6			Sa	0659	20.6	6.3			Su	0653	22.5	6.9		
	1420	3.3	1.0				1351	1.7	0.5				1348	0.9	0.3				1356	-1.7	-0.5		
	2010	18.8	5.7				1936	19.7	6.0				1957	17.7	5.4				2010	19.0	5.8		
						31	0200	0.5	0.2									31	0202	4.9	1.5		
						F	0805	21.2	6.5									M	0739	20.8	6.3		
							1442	1.9	0.6										1458	0.1	0.0		
							2031	18.2	5.5										2124	17.4	5.3		

Time meridian 135° W. 0000 is midnight. 1200 is noon.
 Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

Times and Heights of High and Low Waters

APRIL				MAY				JUNE			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
Day	h m ft m	Day	h m ft m	Day	h m ft m	Day	h m ft m	Day	h m ft m	Day	h m ft m
1 0306 7.1 2.2		16 0252 9.3 2.8		1 0420 7.4 2.3		16 0351 8.4 2.6		1 0624 4.1 1.2		16 0530 4.6 1.4	
Tu 0845 18.8 5.7		W 0752 15.9 4.8		Th 1016 17.1 5.2		F 0922 15.2 4.6		Su 1223 16.7 5.1		M 1126 15.9 4.8	
1611 1.6 0.5		1601 4.0 1.2		1706 2.2 0.7		1627 3.3 1.0		1834 4.1 1.2		1732 4.3 1.3	
2249 16.6 5.1		2258 14.8 4.5		2344 18.1 5.5		2311 16.5 5.0				2348 19.1 5.8	
2 0430 8.5 2.6		17 0420 10.0 3.0		2 0544 6.7 2.0		17 0506 7.7 2.3		2 0049 19.7 6.0		17 0632 3.0 0.9	
W 1021 17.2 5.2		Th 0956 14.5 4.4		F 1142 16.8 5.1		Sa 1056 15.1 4.6		M 0724 2.7 0.8		Tu 1233 16.7 5.1	
1733 2.3 0.7		1721 4.3 1.3		1818 2.5 0.8		1732 3.5 1.1		1326 17.1 5.2		1834 4.9 1.5	
								1929 4.7 1.4			
3 0012 16.9 5.2		18 0009 15.3 4.7		3 0046 18.9 5.8		18 0003 17.2 5.2		3 0133 20.0 6.1		18 0036 20.1 6.1	
Th 0601 8.2 2.5		F 0549 9.3 2.8		Sa 0657 5.1 1.6		Su 0615 6.1 1.9		Tu 0814 1.4 0.4		W 0731 1.0 0.3	
1157 17.0 5.2		1143 14.7 4.5		1255 17.4 5.3		1209 15.8 4.8		1416 17.7 5.4		1335 17.8 5.4	
1852 1.9 0.6		1831 3.7 1.1		1918 2.3 0.7		1828 3.4 1.0		2016 5.1 1.6		1933 5.1 1.6	
4 0123 18.1 5.5		19 0103 16.4 5.0		4 0134 19.8 6.0		19 0046 18.4 5.6		4 0211 20.3 6.2		19 0123 21.2 6.5	
F 0718 6.5 2.0		Sa 0700 7.5 2.3		Su 0754 3.1 0.9		M 0711 3.9 1.2		W 0856 0.3 0.1		Th 0823 -1.0 -0.3	
1316 17.9 5.5		1251 15.8 4.8		1353 18.2 5.5		1308 17.1 5.2		1501 18.3 5.6		1432 19.1 5.8	
1953 1.0 0.3		1924 2.6 0.8		2008 2.2 0.7		1923 3.1 0.9		2059 5.5 1.7		2028 5.1 1.6	
5 0214 19.5 5.9		20 0145 17.8 5.4		5 0216 20.6 6.3		20 0126 19.8 6.0		5 0247 20.4 6.2		20 0208 22.4 6.8	
Sa 0819 4.3 1.3		Su 0753 5.2 1.6		M 0840 1.3 0.4		Tu 0801 1.5 0.5		Th 0936 -0.5 -0.2		F 0912 -2.7 -0.8	
1414 19.1 5.8		1345 17.4 5.3		1440 19.0 5.8		1358 18.5 5.6		1545 18.8 5.7		1523 20.3 6.2	
2041 0.2 0.1		2009 1.5 0.5		2051 2.3 0.7		2009 2.8 0.9		2138 5.9 1.8		2120 4.8 1.5	
6 0256 20.7 6.3		21 0219 19.3 5.9		6 0251 21.2 6.5		21 0203 21.3 6.5		6 0318 20.5 6.2		21 0256 23.2 7.1	
Su 0904 2.2 0.7		M 0835 2.6 0.8		Tu 0920 -0.1 0.0		W 0848 -0.8 -0.2		F 1013 -1.0 -0.3		Sa 1002 -4.0 -1.2	
1501 20.1 6.1		1430 19.1 5.8		1521 19.6 6.0		1448 20.0 6.1		1624 19.2 5.9		1613 21.1 6.4	
2123 -0.2 -0.1		2049 0.6 0.2		2128 2.6 0.8		2054 2.6 0.8		2216 6.1 1.9		2210 4.5 1.4	
7 0328 21.6 6.6		22 0251 20.8 6.3		7 0321 21.5 6.6		22 0240 22.7 6.9		7 0350 20.4 6.2		22 0344 23.8 7.3	
M 0943 0.5 0.2		Tu 0917 0.1 0.0		W 0957 -1.0 -0.3		Th 0933 -2.8 -0.9		Sa 1048 -1.3 -0.4		Su 1049 -4.7 -1.4	
1541 20.8 6.3		1512 20.6 6.3		1558 20.0 6.1		1535 21.1 6.4		1702 19.4 5.9		1704 21.7 6.6	
2159 -0.2 -0.1		2128 0.1 0.0		2202 3.1 0.9		2139 2.6 0.8		2251 6.3 1.9		2259 4.1 1.2	
8 0358 22.1 6.7		23 0320 22.3 6.8		8 0350 21.6 6.6		23 0318 23.7 7.2		8 0422 20.3 6.2		23 0433 23.8 7.3	
Tu 1019 -0.7 -0.2		W 0955 -2.0 -0.6		Th 1031 -1.6 -0.5		F 1016 -4.2 -1.3		Su 1124 -1.4 -0.4		M 1137 -4.8 -1.5	
1616 21.2 6.5		1552 21.8 6.6		1634 20.1 6.1		1622 21.8 6.6		1742 19.3 5.9		1754 21.9 6.7	
2231 0.2 0.1		2208 0.0 0.0		2237 3.8 1.2		2224 2.8 0.9		2329 6.4 2.0		2349 3.8 1.2	
9 0426 22.4 6.8		24 0353 23.5 7.2		9 0419 21.5 6.6		24 0400 24.3 7.4		9 0453 20.1 6.1		24 0525 23.3 7.1	
W 1054 -1.5 -0.5		Th 1035 -3.7 -1.1		F 1106 -1.8 -0.5		Sa 1102 -4.9 -1.5		M 1202 -1.3 -0.4		Tu 1224 -4.2 -1.3	
1651 21.2 6.5		1636 22.4 6.8		1712 20.1 6.1		1711 22.0 6.7		1821 19.1 5.8		1843 21.8 6.6	
2302 0.9 0.3		2247 0.4 0.1		2310 4.5 1.4		2310 3.2 1.0					
10 0454 22.4 6.8		25 0429 24.3 7.4		10 0445 21.2 6.5		25 0443 24.2 7.4		10 0008 6.5 2.0		25 0040 3.6 1.1	
Th 1129 -1.8 -0.5		F 1118 -4.6 -1.4		Sa 1142 -1.6 -0.5		Su 1149 -4.9 -1.5		Tu 0529 19.7 6.0		W 0619 22.3 6.8	
1728 20.9 6.4		1721 22.5 6.9		1751 19.7 6.0		1803 21.8 6.6		1240 -1.0 -0.3		1312 -3.1 -0.9	
2334 2.0 0.6		2329 1.2 0.4		2345 5.3 1.6				1903 18.8 5.7		1933 21.5 6.6	
11 0521 22.0 6.7		26 0505 24.4 7.4		11 0514 20.6 6.3		26 0000 3.8 1.2		11 0048 6.5 2.0		26 0133 3.6 1.1	
F 1205 -1.6 -0.5		Sa 1203 -4.6 -1.4		Su 1218 -1.1 -0.3		M 0531 23.5 7.2		W 0607 19.1 5.8		Th 0715 20.9 6.4	
1806 20.3 6.2		1810 21.9 6.7		1833 19.0 5.8		1239 -4.1 -1.2		1320 -0.5 -0.2		1400 -1.5 -0.5	
						1856 21.2 6.5		1948 18.3 5.6		2026 21.0 6.4	
12 0006 3.2 1.0		27 0011 2.5 0.8		12 0022 6.1 1.9		27 0051 4.4 1.3		12 0133 6.5 2.0		27 0229 3.8 1.2	
Sa 0548 21.3 6.5		Su 0547 23.7 7.2		M 0544 19.8 6.0		Tu 0626 22.2 6.8		Th 0650 18.3 5.6		F 0818 19.3 5.9	
1240 -0.9 -0.3		1251 -3.8 -1.2		1256 -0.4 -0.1		1330 -2.8 -0.9		1400 0.3 0.1		1450 0.4 0.1	
1848 19.2 5.9		1904 20.8 6.3		1919 18.1 5.5		1954 20.4 6.2		2034 18.0 5.5		2116 20.4 6.2	
13 0040 4.7 1.4		28 0101 4.0 1.2		13 0059 6.9 2.1		28 0149 5.1 1.6		13 0221 6.5 2.0		28 0328 4.1 1.2	
Su 0613 20.2 6.2		M 0632 22.3 6.8		Tu 0616 18.8 5.7		W 0725 20.5 6.2		F 0745 17.3 5.3		Sa 0924 17.7 5.4	
1317 0.1 0.0		1344 -2.4 -0.7		1338 0.6 0.2		1426 -1.2 -0.4		1445 1.2 0.4		1544 2.4 0.7	
1933 17.9 5.5		2005 19.5 5.9		2013 17.2 5.2		2056 19.7 6.0		2122 17.8 5.4		2212 19.8 6.0	
14 0115 6.3 1.9		29 0157 5.6 1.7		14 0145 7.7 2.3		29 0250 5.6 1.7		14 0318 6.3 1.9		29 0431 4.1 1.2	
M 0642 19.0 5.8		Tu 0728 20.4 6.2		W 0653 17.6 5.4		Th 0838 18.7 5.7		Sa 0855 16.4 5.0		Su 1035 16.5 5.0	
1400 1.5 0.5		1442 -0.6 -0.2		1429 1.7 0.5		1524 0.6 0.2		1537 2.3 0.7		1640 4.4 1.3	
2029 16.4 5.0		2115 18.4 5.6		2110 16.5 5.0		2159 19.3 5.9		2211 17.9 5.5		2306 19.3 5.9	
15 0157 7.9 2.4		30 0303 6.9 2.1		15 0241 8.3 2.5		30 0359 5.8 1.8		15 0421 5.8 1.8		30 0540 3.8 1.2	
Tu 0710 17.5 5.3		W 0843 18.4 5.6		Th 0749 16.3 5.0		F 0956 17.4 5.3		Su 1012 15.8 4.8		M 1145 15.9 4.8	
1452 2.9 0.9		1551 1.1 0.3		1522 2.6 0.8		1628 2.1 0.6		1632 3.4 1.0		1743 6.0 1.8	
2139 15.3 4.7		2231 17.9 5.5		2212 16.2 4.9		2300 19.2 5.9		2302 18.3 5.6		2359 19.0 5.8	
						31 0513 5.2 1.6					
						Sa 1113 16.7 5.1					
						1732 3.3 1.0					
						2359 19.4 5.9					

Time meridian 135° W. 0000 is midnight. 1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

Times and Heights of High and Low Waters

JULY				AUGUST				SEPTEMBER			
Time		Height		Time		Height		Time		Height	
Day	h m	ft	m	Day	h m	ft	m	Day	h m	ft	m
1	0646	3.1	0.9	16	0559	2.5	0.8	1	0232	18.0	5.5
Tu	1254	16.0	4.9	W	1209	16.2	4.9	M	0912	0.3	0.1
	1845	7.1	2.2		1756	6.7	2.0		1531	18.8	5.7
					2353	19.8	6.0		2123	5.6	1.7
2	0049	18.9	5.8	17	0705	1.1	0.3	2	0310	19.2	5.9
W	0745	2.2	0.7	Th	1321	17.1	5.2	Tu	0946	-0.8	-0.2
	1356	16.5	5.0		1968	7.1	2.2		1600	19.7	6.0
	1943	7.7	2.3						2156	3.9	1.2
3	0135	18.9	5.8	18	0052	20.5	6.2	3	0344	20.3	6.2
Th	0835	1.2	0.4	F	0808	-0.5	-0.2	W	1018	-1.6	-0.5
	1448	17.3	5.3		1422	18.4	5.6		1626	20.6	6.3
	2035	7.8	2.4		2011	6.7	2.0		2231	2.2	0.7
4	0220	19.0	5.8	19	0151	21.4	6.5	4	0418	21.2	6.5
F	0917	0.3	0.1	Sa	0901	-2.2	-0.7	Th	1050	-2.1	-0.6
	1534	18.0	5.5		1518	19.7	6.0		1651	21.5	6.6
	2117	7.6	2.3		2109	5.8	1.8		2306	0.7	0.2
5	0259	19.3	5.9	20	0248	22.4	6.8	5	0453	21.8	6.6
Sa	0955	-0.4	-0.1	Su	0950	-3.5	-1.1	F	1122	-2.1	-0.6
	1613	18.7	5.7		1608	20.9	6.4		1719	22.2	6.8
	2200	7.3	2.2		2200	4.6	1.4		2342	-0.4	-0.1
6	0334	19.6	6.0	21	0338	23.2	7.1	6	0528	21.9	6.7
Su	1031	-1.0	-0.3	M	1037	-4.2	-1.3	Sa	1154	-1.6	-0.5
	1651	19.1	5.8		1653	21.8	6.6		1747	22.6	6.9
	2237	6.7	2.0		2249	3.4	1.0				
7	0410	19.9	6.1	22	0428	23.5	7.2	7	0019	-1.0	-0.3
M	1108	-1.5	-0.5	Tu	1121	-4.4	-1.3	Su	0609	21.4	6.5
	1727	19.4	5.9		1735	22.3	6.8		1230	-0.4	-0.1
	2315	6.1	1.9		2336	2.5	0.8		1818	22.6	6.9
8	0445	20.1	6.1	23	0517	23.3	7.1	8	0059	-1.0	-0.3
Tu	1144	-1.8	-0.5	W	1205	-4.0	-1.2	M	0653	20.4	6.2
	1803	19.6	6.0		1819	22.5	6.9		1307	1.4	0.4
	2352	5.4	1.6						1852	22.1	6.7
9	0523	20.1	6.1	24	0022	1.9	0.6	9	0146	-0.4	-0.1
W	1220	-1.8	-0.5	Th	0606	22.6	6.9	Tu	0746	18.9	5.8
	1837	19.7	6.0		1247	-2.9	-0.9		1349	3.6	1.1
					1859	22.3	6.8		1933	21.1	6.4
10	0032	4.9	1.5	25	0109	1.7	0.5	10	0242	0.7	0.2
Th	0600	19.9	6.1	F	0658	21.3	6.5	W	0856	17.2	5.2
	1255	-1.5	-0.5		1328	-1.3	-0.4		1442	6.0	1.8
	1915	19.7	6.0		1944	21.8	6.6		2021	19.6	6.0
11	0112	4.4	1.3	26	0157	2.0	0.6	11	0351	1.9	0.6
F	0643	19.4	5.9	Sa	0749	19.7	6.0	Th	1022	16.1	4.9
	1332	-0.8	-0.2		1412	0.8	0.2		1556	8.1	2.5
	1951	19.6	6.0		2028	20.9	6.4		2140	18.1	5.5
12	0157	4.1	1.2	27	0250	2.6	0.8	12	0515	2.4	0.7
Sa	0730	18.6	5.7	Su	0847	17.9	5.5	F	1151	16.2	4.9
	1410	0.3	0.1		1455	3.2	1.0		1731	8.9	2.7
	2027	19.5	5.9		2114	19.8	6.0		2322	17.6	5.4
13	0245	3.9	1.2	28	0347	3.3	1.0	13	0636	1.8	0.5
Su	0829	17.5	5.3	M	0953	16.3	5.0	Sa	1310	17.3	5.3
	1452	1.9	0.6		1547	5.6	1.7		1854	7.9	2.4
	2111	19.4	5.9		2207	18.6	5.7				
14	0341	3.7	1.1	29	0451	3.9	1.2	14	0049	18.4	5.6
M	0937	16.5	5.0	Tu	1106	15.3	4.7	Su	0742	0.5	0.2
	1542	3.7	1.1		1650	7.7	2.3		1408	18.9	5.8
	2158	19.3	5.9		2304	17.7	5.4		2001	5.9	1.8
15	0447	3.3	1.0	30	0605	3.9	1.2	15	0155	19.8	6.0
Tu	1052	16.0	4.9	W	1225	15.1	4.6	M	0836	-0.8	-0.2
	1642	5.5	1.7		1801	9.1	2.8		1453	20.4	6.2
	2255	19.4	5.9						2053	3.6	1.1
				31	0007	17.2	5.2	31	0146	16.8	5.1
				Th	0716	3.3	1.0	Su	0835	1.7	0.5
					1337	15.7	4.8		1459	17.7	5.4
					1918	9.4	2.9		2045	7.4	2.3

Time meridian 135° W. 0000 is midnight. 1200 is noon.
 Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

Times and Heights of High and Low Waters

OCTOBER				NOVEMBER				DECEMBER			
Time	Height			Time	Height			Time	Height		
Day	h	m	ft m	Day	h	m	ft m	Day	h	m	ft m
1 0246	19.1	5.8		16 0317	21.3	6.5		1 0402	21.6	6.6	
W 0910	0.1	0.0		Th 0933	0.1	0.0		M 1002	3.6	1.1	
1518	20.3	6.2		1533	22.7	6.9		1536	24.3	7.4	
2128	2.0	0.6		2158	-1.2	-0.4		2239	-4.5	-1.4	
2 0320	20.5	6.2		17 0354	21.8	6.6		2 0447	22.1	6.7	
Th 0942	-0.6	-0.2		F 1009	0.6	0.2		Tu 1047	3.7	1.1	
1545	21.5	6.6		1602	23.0	7.0		1619	24.6	7.5	
2203	0.0	0.0		2234	-2.0	-0.6		2324	-4.8	-1.5	
3 0355	21.5	6.6		18 0433	21.8	6.6		3 0536	22.2	6.8	
F 1017	-1.0	-0.3		Sa 1043	1.4	0.4		W 1134	3.9	1.2	
1610	22.6	6.9		1631	23.0	7.0		1704	24.2	7.4	
2238	-1.6	-0.5		2310	-2.2	-0.7		18 0606	20.0	6.1	
4 0431	22.2	6.8		19 0510	21.5	6.6		Th 1155	6.4	2.0	
Sa 1050	-0.8	-0.2		Su 1115	2.4	0.7		1719	20.2	6.2	
1638	23.4	7.1		1659	22.5	6.9		4 0013	-4.4	-1.3	
2316	-2.7	-0.8		2345	-1.9	-0.6		Th 0627	21.8	6.6	
5 0512	22.4	6.8		20 0547	20.8	6.3		1224	4.3	1.3	
Su 1126	-0.1	0.0		M 1150	3.8	1.2		1756	23.1	7.0	
1708	23.8	7.3		1726	21.7	6.6		5 0103	-3.3	-1.0	
2355	-3.1	-0.9						F 0724	21.2	6.5	
6 0553	21.9	6.7		21 0022	-1.1	-0.3		1320	4.8	1.5	
M 1203	1.2	0.4		Tu 0630	19.8	6.0		1853	21.6	6.6	
1742	23.6	7.2		1225	5.2	1.6		20 0101	-0.5	-0.2	
				1757	20.6	6.3		Sa 0725	19.1	5.8	
7 0037	-2.8	-0.9		22 0059	0.1	0.0		1317	6.4	2.0	
Tu 0643	20.8	6.3		W 0717	18.5	5.6		1837	18.7	5.7	
1245	2.9	0.9		1301	6.8	2.1		21 0139	0.4	0.1	
1819	22.7	6.9		1822	19.1	5.8		Su 0810	18.7	5.7	
8 0126	-1.7	-0.5		23 0144	1.5	0.5		1402	6.4	2.0	
W 0738	19.3	5.9		Th 0813	17.1	5.2		1924	17.6	5.4	
1334	5.0	1.5		1346	8.3	2.5		22 0221	1.4	0.4	
1904	21.2	6.5		1857	17.5	5.3		M 0852	18.2	5.5	
9 0225	-0.1	0.0		24 0237	3.0	0.9		1452	6.4	2.0	
Th 0850	17.8	5.4		F 0926	15.9	4.8		2025	16.5	5.0	
1434	7.0	2.1		1445	9.6	2.9		8 0353	1.9	0.6	
2002	19.2	5.9		1936	15.7	4.8		M 1027	19.7	6.0	
10 0335	1.5	0.5		25 0345	4.2	1.3		1636	5.2	1.6	
F 1013	16.9	5.2		Sa 1043	15.5	4.7		2238	17.1	5.2	
1556	8.3	2.5		1612	10.1	3.1		9 0459	3.5	1.1	
2135	17.5	5.3		2159	14.4	4.4		Tu 1126	19.7	6.0	
11 0456	2.3	0.7		26 0501	4.7	1.4		1749	4.3	1.3	
Sa 1139	17.2	5.2		Su 1154	15.9	4.8		2355	16.9	5.2	
1726	8.2	2.5		1739	9.4	2.9		10 0604	4.6	1.4	
2324	17.1	5.2		2336	14.5	4.4		W 1221	20.0	6.1	
12 0617	2.1	0.6		27 0612	4.3	1.3		1855	3.0	0.9	
Su 1248	18.3	5.6		M 1246	16.8	5.1		25 0458	5.3	1.6	
1847	6.6	2.0		1847	7.6	2.3		Th 1120	18.6	5.7	
13 0044	18.0	5.5		28 0041	15.6	4.8		1806	4.1	1.2	
M 0723	1.3	0.4		Tu 0707	3.4	1.0		26 0012	15.8	4.8	
1342	19.7	6.0		1329	18.0	5.5		F 0604	6.2	1.9	
1948	4.3	1.3		1939	5.4	1.6		1209	19.4	5.9	
14 0147	19.3	5.9		29 0131	17.1	5.2		1908	2.3	0.7	
Tu 0812	0.5	0.2		W 0750	2.6	0.8		27 0116	16.9	5.2	
1424	21.0	6.4		1403	19.4	5.9		Sa 0706	6.5	2.0	
2038	2.0	0.6		2019	3.0	0.9		1258	20.5	6.2	
15 0235	20.5	6.2		30 0216	18.7	5.7		2003	0.2	0.1	
W 0854	0.1	0.0		Th 0830	1.8	0.5		13 0251	18.7	5.7	
1501	22.0	6.7		1432	20.8	6.3		Sa 0841	6.1	1.9	
2120	0.1	0.0		2058	0.6	0.2		1432	20.8	6.3	
				31 0256	20.1	6.1		2120	-0.5	-0.2	
				F 0907	1.3	0.4		14 0332	19.3	5.9	
				1501	22.1	6.7		Su 0923	6.3	1.9	
				2136	-1.5	-0.5		1505	20.9	6.4	
								2157	-1.1	-0.3	
								15 0411	19.8	6.0	
								M 1002	6.5	2.0	
								1538	20.9	6.4	
								2235	-1.4	-0.4	
								30 0354	21.0	6.4	
								Tu 0948	5.0	1.5	
								1521	23.8	7.3	
								2227	-4.5	-1.4	
								31 0442	21.9	6.7	
								W 1037	4.2	1.3	
								1610	24.3	7.4	
								2313	-5.0	-1.5	

Time meridian 135° W. 0000 is midnight. 1200 is noon.
 Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

Times and Heights of High and Low Waters

APRIL								MAY								JUNE													
Time		Height		Time		Height		Time		Height		Time		Height		Time		Height		Time		Height							
Day				Day				Day				Day				Day				Day									
	h	m	ft	m		h	m	ft	m		h	m	ft	m		h	m	ft	m		h	m	ft	m					
1	0028	5.3	1.6		16	0001	7.5	2.3		1	0147	5.9	1.8		16	0057	7.5	2.3		1	0408	3.4	1.0						
Tu	0628	16.8	5.1		W	0551	14.1	4.3		Th	0742	14.6	4.5		F	0644	13.2	4.0		Su	1006	13.4	4.1						
	1329	1.0	0.3			1257	3.7	1.1			1438	1.4	0.4			1336	3.0	0.9			M	0851	13.0	4.0					
	2023	13.4	4.1			2000	11.7	3.6			2134	14.5	4.4			2038	13.0	4.0				1451	3.3	1.0					
2	0147	6.7	2.0		17	0110	8.5	2.6			2	0319	5.5	1.7			2	0219	7.2	2.2			2238	16.1	4.9				
W	0748	15.1	4.6		Th	0659	12.9	3.9		F	0915	13.9	4.2		17	Sa	0805	12.6	3.8		2	0504	2.2	0.7					
	1502	1.9	0.6			1421	4.3	1.3			1558	1.8	0.5				1446	3.2	1.0		M	1117	13.7	4.2					
	2203	13.5	4.1			2139	11.8	3.6			2243	15.3	4.7				2137	13.8	4.2			1701	3.6	1.1					
3	0329	6.8	2.1		18	0256	8.5	2.6		3	0440	4.2	1.3		18	0339	5.9	1.8		3	0553	1.0	0.3		17	0355	2.8	0.9	
Th	0927	14.5	4.4		F	0841	12.4	3.8		Sa	1041	14.3	4.4		Su	0930	12.9	3.9		Tu	1209	14.3	4.4		W	1008	13.4	4.0	
	1633	1.6	0.5			1552	3.9	1.2			1701	1.7	0.5				1550	3.0	0.9			1747	3.9	1.2			1557	3.7	1.1
	2322	14.7	4.5			2249	12.9	3.9			2333	16.3	5.0				2224	15.1	4.6			2358	17.0	5.2			2215	17.0	5.2
4	0459	5.4	1.6		19	0428	7.2	2.2		4	0539	2.5	0.8		19	0440	3.9	1.2		4	0634	0.0	0.0		18	0456	0.8	0.2	
F	1101	15.1	4.6		Sa	1014	13.1	4.0		Su	1146	15.1	4.6		M	1045	14.0	4.3		W	1255	15.0	4.6		W	1120	14.4	4.4	
	1739	0.7	0.2			1653	2.9	0.9			1749	1.6	0.5				1646	2.6	0.8			1827	4.1	1.2			1656	3.7	1.1
						2333	14.5	4.4									2309	16.7	5.1							2307	18.2	5.5	
5	0015	16.2	4.9		20	0526	5.1	1.6		5	0015	17.3	5.3		20	0533	1.5	0.5		5	0031	17.4	5.3		20	0645	-3.2	-1.0	
Sa	0600	3.5	1.1		Su	1122	14.6	4.5		M	0626	0.9	0.3		Tu	1145	15.4	4.7		Th	0709	-0.8	-0.2		F	1317	16.9	5.2	
	1207	16.3	5.0			1742	1.7	0.5			1234	15.9	4.8			1738	2.0	0.6			1337	15.6	4.8			1847	2.9	0.9	
	1829	-0.1	0.0								1829	1.6	0.5			2349	18.3	5.6			1906	4.2	1.3						
6	0053	17.5	5.3		21	0007	16.2	4.9		6	0047	18.0	5.5		21	0618	-1.0	-0.3		6	0108	17.8	5.4		21	0050	20.3	6.2	
Su	0645	1.6	0.5		M	0607	2.7	0.8		Tu	0701	-0.4	-0.1		W	1239	16.8	5.1		F	0745	-1.3	-0.4		Sa	0734	-4.6	-1.4	
	1254	17.4	5.3			1215	16.3	5.0			1315	16.7	5.1			1824	1.6	0.5			1412	16.1	4.9			1410	17.9	5.5	
	1903	-0.5	-0.2			1821	0.6	0.2			1903	1.8	0.5								1493	4.2	1.3			1940	2.4	0.7	
7	0127	18.6	5.7		22	0039	18.0	5.5		7	0114	18.6	5.7		22	0031	19.8	6.0		7	0137	18.0	5.5		22	0140	21.0	6.4	
M	0727	0.1	0.0		Tu	0648	0.3	0.1		W	0733	-1.3	-0.4		Th	0703	-3.1	-0.9		Sa	0818	-1.7	-0.5		Su	0823	-5.4	-1.6	
	1335	18.3	5.6			1301	17.9	5.5			1354	17.2	5.2			1327	18.0	5.5			1450	16.3	5.0			1459	18.5	5.6	
	1939	-0.6	-0.2			1900	-0.1	0.0			1937	2.0	0.6			1911	1.3	0.4			2020	4.3	1.3			2031	2.0	0.6	
8	0156	19.4	5.9		23	0114	19.7	6.0		8	0143	18.9	5.8		23	0112	20.9	6.4		8	0213	18.0	5.5		23	0230	21.1	6.4	
Tu	0759	-1.0	-0.3		W	0728	-2.0	-0.6		Th	0808	-1.9	-0.6		F	0749	-4.7	-1.4		Su	0853	-1.7	-0.5		M	0911	-5.5	-1.7	
	1412	18.8	5.7			1345	19.2	5.9			1428	17.4	5.3			1417	18.8	5.7			1526	16.3	5.0			1548	18.7	5.7	
	2010	-0.3	-0.1			1940	-0.5	-0.2			2009	2.4	0.7			1955	1.2	0.4			2056	4.4	1.3			2122	1.8	0.5	
9	0222	19.9	6.1		24	0148	21.0	6.4		9	0209	19.0	5.8		24	0157	21.5	6.6		9	0248	17.8	5.4		24	0322	20.7	6.3	
Sa	0833	-1.7	-0.5		Th	0808	-3.8	-1.2		F	0838	-2.1	-0.6		Sa	0833	-5.6	-1.7		M	0928	-1.6	-0.5		Tu	0959	-5.0	-1.5	
	1445	18.9	5.8			1430	19.9	6.1			1502	17.4	5.3			1506	19.0	5.8			1605	16.1	4.9			1636	18.5	5.6	
	2039	0.3	0.1			2020	-0.4	-0.1			2042	3.0	0.9			2043	1.4	0.4			2134	4.7	1.4			2213	2.0	0.6	
10	0248	19.9	6.1		25	0224	21.8	6.6		10	0239	18.8	5.7		25	0242	21.5	6.6		10	0327	17.4	5.3		25	0412	19.8	6.0	
Th	0905	-1.9	-0.6		F	0850	-4.9	-1.5		Sa	0909	-1.9	-0.6		Su	0920	-5.6	-1.7		Tu	1005	-1.2	-0.4		W	1047	-3.9	-1.2	
	1521	18.6	5.7			1515	19.9	6.1			1538	17.0	5.2			1556	18.7	5.7			1642	15.6	4.8			1724	18.1	5.5	
	2109	1.2	0.4			2101	0.1	0.0			2114	3.6	1.1			2130	1.9	0.6			2213	5.1	1.6			2306	2.3	0.7	
11	0314	19.6	6.0		26	0303	21.9	6.7		11	0309	18.3	5.6		26	0328	20.9	6.4		11	0404	16.7	5.1		26	0505	18.3	5.6	
F	0934	-1.7	-0.5		Sa	0934	-5.1	-1.6		Su	0944	-1.4	-0.4		M	1009	-5.0	-1.5		W	1042	-0.6	-0.2		Th	1134	-2.3	-0.7	
	1553	17.9	5.5			1602	19.2	5.9			1613	16.2	4.9			1648	18.0	5.5			1724	15.2	4.6			1814	17.5	5.3	
	2140	2.2	0.7			2144	1.1	0.3			2149	4.4	1.3			2221	2.6	0.8			2255	5.5	1.7						
12	0340	18.9	5.8		27	0344	21.3	6.5		12	0341	17.5	5.3		27	0420	19.6	6.0		12	0444	15.9	4.8		27	0001	2.8	0.9	
Sa	1006	-1.0	-0.3		Su	1018	-4.4	-1.3		M	1018	-0.6	-0.2		Tu	1100	-3.7	-1.1		Th	1123	0.1	0.0		F	0559	16.6	5.1	
	1629	16.8	5.1			1652	18.0	5.5			1655	15.3	4.7			1743	17.1	5.2			1806	14.8	4.5			1222	-0.5	-0.2	
	2210	3.5	1.1			2230	2.4	0.7			2225	5.3	1.6			2316	3.4	1.0			2343	5.8	1.8			1905	16.9	5.2	
13	0407	18.0	5.5		28	0429	20.0	6.1		13	0413	16.5	5.0		28	0515	18.0	5.5		13	0532	14.9	4.5		28	0102	3.3	1.0	
Su	1039	0.0	0.0		M	1110	-3.1	-0.9		Tu	1057	0.4	0.1		W	1156	-2.0	-0.6		F	1206	1.0	0.3		Sa	0659	14.9	4.5	
	1706	15.5	4.7			1748	16.5	5.0			1737	14.2	4.3			1843	16.2	4.9			1853	14.6	4.5			1313	1.5	0.5	
	2242	4.9	1.5			2324	3.8	1.2			2306	6.2	1.9												1952	16.3	5.0		
14	0436	16.8	5.1		29	0521	18.2	5.5		14	0452	15.4	4.7		29	0020	4.2	1.3		14	0037	5.8	1.8		29	0206	3.5	1.1	
	M	1116	1.2	0.4	Tu	1209	-1.3	-0.4		W	1140	1.4	0.4		Th	0616	16.2	4.9		Sa	0627	14.0	4.3		Su	0806	13.5	4.1	
	1751	14.0	4.3			1855	15.2	4.6			1833	13.3	4.1			1257	-0.3	-0.1			1256	1.8	0.5			1406	3.3	1.0	
	2319	6.2	1.9								2353	7.0	2.1			1945	15.6	4.8			1942	14.8	4.5			2043	15.8	4.8	
15	0508	15.5	4.7		30	0027	5.2	1.6		15	0540	14.2	4.3		30	0131	4.6	1.4		15	0139	5.4	1.6		30	0316	3.4	1.0	
Tu	1159	2.6	0.8		W	0625	16.2	4.9		Th	1233	2.3	0.7		F	0728	14.6	4.5		Su	0733	13.3	4.1		M	0920	12.7	3.9	
	1844	12.6	3.8			1317	0.3	0.1			1931	12.9	3.9			1359	1.2	0.4			1352	2.7	0.8			1506	4.7	1.4	
						2013	14.4	4.4							2048	1													

Time meridian 135° W. 0000 is midnight. 1200 is noon.
Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

Times and Heights of High and Low Waters

JULY						AUGUST						SEPTEMBER					
Time Height			Time Height			Time Height			Time Height			Time Height			Time Height		
Day	h m	ft m	Day	h m	ft m	Day	h m	ft m	Day	h m	ft m	Day	h m	ft m	Day	h m	ft m
1	0424	2.8 0.9	16	0318	2.2 0.7	1	0546	2.7 0.8	16	0530	0.1 0.0	1	0008	15.8 4.8	16	0037	18.9 5.8
Tu	1037	12.6 3.8	W	0940	13.1 4.0	F	1230	13.3 4.1	Sa	1215	15.2 4.6	M	0652	1.3 0.4	Tu	0703	-1.6 -0.5
	1609	5.7 1.7		1515	5.2 1.6		1738	7.6 2.3		1736	5.5 1.7		1324	16.0 4.9		1330	19.3 5.9
	2224	15.5 4.7		2130	17.0 5.2		2331	15.1 4.6		2336	17.9 5.5		1855	5.3 1.6		1916	1.1 0.3
2	0520	2.1 0.6	17	0430	0.9 0.3	2	0634	1.7 0.5	17	0629	-1.5 -0.5	2	0053	17.3 5.3	17	0125	20.1 6.1
W	1146	13.0 4.0	Th	1104	13.8 4.2	Sa	1315	14.4 4.4	Su	1308	16.9 5.2	Tu	0724	0.1 0.0	W	0741	-2.1 -0.1
	1706	6.2 1.9		1627	5.4 1.6		1829	6.7 2.0		1835	3.9 1.2		1351	17.3 5.3		1404	20.4 6.2
	2312	15.7 4.8		2236	17.7 5.4								1931	3.7 1.1		1958	-0.3 -0.1
3	0607	1.2 0.4	18	0536	-0.8 -0.2	3	0023	16.1 4.9	18	0039	19.3 5.9	3	0132	18.6 5.7	18	0207	20.7 6.3
Th	1239	13.8 4.2	F	1215	15.0 4.6	Su	0714	0.5 0.2	M	0719	-2.8 -0.9	W	0751	-0.9 -0.3	Th	0816	-2.0 -0.6
	1757	6.2 1.9		1738	4.9 1.5		1348	15.4 4.7		1353	18.4 5.6		1416	18.5 5.6		1434	21.0 6.4
	2357	16.2 4.9		2338	18.6 5.7		1911	5.7 1.7		1927	2.2 0.7		2004	2.2 0.7		2036	-1.2 -0.4
4	0650	0.4 0.1	19	0634	-2.4 -0.7	4	0106	17.2 5.2	19	0132	20.5 6.2	4	0207	19.6 6.0	19	0246	20.8 6.3
F	1325	14.6 4.5	Sa	1314	16.4 5.0	M	0748	-0.5 -0.2	Tu	0801	-3.6 -1.1	Th	0823	-1.5 -0.5	F	0849	-1.3 -0.4
	1842	5.8 1.8		1839	3.9 1.2		1422	16.4 5.0		1432	19.6 6.0		1444	19.5 5.9		1504	21.2 6.5
							1948	4.6 1.4		2013	0.8 0.2		2039	1.0 0.3		2112	-1.5 -0.5
5	0039	16.7 5.1	20	0039	19.7 6.0	5	0148	18.1 5.5	20	0219	21.1 6.4	5	0244	20.2 6.2	20	0322	20.3 6.2
Sa	0727	-0.4 -0.1	Su	0727	-3.8 -1.2	Tu	0821	-1.3 -0.4	W	0842	-3.8 -1.2	F	0855	-1.6 -0.5	Sa	0922	-0.2 -0.1
	1403	15.4 4.7		1404	17.7 5.4		1452	17.3 5.3		1507	20.4 6.2		1513	20.3 6.2		1532	20.8 6.3
	1924	5.4 1.6		1932	2.8 0.9		2026	3.7 1.1		2055	-0.1 0.0		2114	0.0 0.0		2146	-1.2 -0.4
6	0119	17.3 5.3	21	0133	20.6 6.3	6	0226	18.8 5.7	21	0301	21.1 6.4	6	0322	20.2 6.2	21	0359	19.3 5.9

Time meridian 135° W. 0000 is midnight. 1200 is noon.
Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

Times and Heights of High and Low Waters

OCTOBER								NOVEMBER								DECEMBER									
Time Height				Time Height				Time Height				Time Height				Time Height				Time Height					
Day	h	m	ft	m	Day	h	m	ft	m	Day	h	m	ft	m	Day	h	m	ft	m	Day	h	m	ft	m	
1	0029	17.1	5.2		16	0111	19.0	5.8		1	0124	19.1	5.8		16	0212	18.2	5.5		1	0155	18.8	5.7		
W	0645	0.9	0.3		Th	0712	0.0	0.0		Sa	0715	1.0	0.3		Su	0751	3.2	1.0		W	0732	2.4	0.7		
1308	18.1	5.5			1330	20.5	6.2		1322	21.3	6.5		1351	19.9	6.1		1330	21.9	6.7		1330	21.9	6.7		
1903	2.5	0.8			1937	-1.2	-0.4		1945	-2.7	-0.8		2023	-2.0	-0.6		2010	-4.7	-1.4		2010	-4.7	-1.4		
2	0108	18.6	5.7		17	0153	19.6	6.0		2	0207	19.9	6.1		17	0250	18.1	5.5		2	0242	19.3	5.9		
Th	0716	0.0	0.0		F	0747	0.3	0.1		Su	0754	1.0	0.3		M	0826	3.7	1.1		Tu	0817	2.3	0.7		
1335	19.5	5.9			1358	20.9	6.4		1356	22.1	6.7		1421	19.7	6.0		1416	22.2	6.8		1416	22.2	6.8		
1935	0.5	0.2			2011	-1.9	-0.6		2024	-3.9	-1.2		2056	-1.7	-0.5		2054	-5.1	-1.6		2054	-5.1	-1.6		
3	0145	19.7	6.0		18	0228	19.7	6.0		3	0250	20.1	6.1		18	0323	17.8	5.4		3	0330	19.3	5.9		
F	0749	-0.5	-0.2		Sa	0819	1.0	0.3		M	0836	1.4	0.4		Tu	0858	4.3	1.3		W	0906	2.5	0.8		
1402	20.8	6.3			1425	20.9	6.4		1433	22.4	6.8		1452	19.1	5.8		1502	21.8	6.6		1502	21.8	6.6		
2011	-1.1	-0.3			2046	-2.1	-0.6		2106	-4.4	-1.3		2128	-1.2	-0.4		2143	-4.8	-1.5		2143	-4.8	-1.5		
4	0225	20.4	6.2		19	0304	19.4	5.9		4	0335	19.7	6.0		19	0402	17.1	5.2		4	0421	18.9	5.8		
Sa	0823	-0.5	-0.2		Su	0851	1.9	0.6		Tu	0918	2.1	0.6		W	0933	5.1	1.6		Th	0954	2.9	0.9		
1432	21.6	6.6			1453	20.5	6.2		1515	22.0	6.7		1525	18.3	5.6		1551	20.9	6.4		1551	20.9	6.4		
2048	-2.3	-0.7			2118	-1.7	-0.5		2151	-4.0	-1.2		2205	-0.3	-0.1		2233	-3.8	-1.2		2233	-3.8	-1.2		
5	0306	20.5	6.2		20	0338	18.7	5.7		5	0425	18.7	5.7		20	0442	16.2	4.9		5	0514	18.2	5.5		
Su	0858	0.1	0.0		M	0923	3.0	0.9		W	1002	3.2	1.0		Th	1010	5.9	1.8		F	1050	3.6	1.1		
1504	21.9	6.7			1520	19.8	6.0		1558	20.9	6.4		1600	17.2	5.2		1645	19.4	5.9		1645	19.4	5.9		
2125	-2.8	-0.9			2150	-0.9	-0.3		2239	-2.9	-0.9		2242	0.7	0.2		2324	-2.4	-0.7		2324	-2.4	-0.7		
6	0346	20.0	6.1		21	0415	17.6	5.4		6	0519	17.5	5.3		21	0524	15.2	4.6		6	0609	17.4	5.3		
M	0937	1.1	0.3		Tu	0955	4.4	1.3		Th	1052	4.4	1.3		F	1052	6.8	2.1		Sa	1148	4.2	1.3		
1539	21.6	6.6			1549	18.7	5.7		1650	19.3	5.9		1639	16.0	4.9		1745	17.6	5.4		1745	17.6	5.4		
2207	-2.6	-0.8			2225	0.3	0.1		2335	-1.3	-0.4		2324	1.8	0.5		2324	1.8	0.5		2324	1.8	0.5		
7	0431	18.8	5.7		22	0454	16.2	4.9		7	0622	16.2	4.9		22	0612	14.3	4.4		7	0022	-0.6	-0.2		
Tu	1015	2.5	0.8		W	1029	5.7	1.7		F	1153	5.6	1.7		Sa	1140	7.6	2.3		Su	0709	16.8	5.1		
1618	20.8	6.3			1621	17.3	5.3		1751	17.4	5.3		1724	14.8	4.5		1257	4.7	1.4		1257	4.7	1.4		
2252	-1.7	-0.5			2300	1.6	0.5								1853	15.9	4.8		1853	15.9	4.8				
8	0524	17.2	5.2		23	0537	14.7	4.5		8	0041	0.4	0.1		23	0012	2.9	0.9		8	0123	1.1	0.3		
W	1103	4.2	1.3		Th	1106	7.1	2.2		Sa	0738	15.4	4.7		Su	0712	13.8	4.2		M	0811	16.5	5.0		
1700	19.3	5.9			1652	15.9	4.8		1310	6.4	2.0		1238	8.2	2.5		1414	4.6	1.4		1414	4.6	1.4		
2345	-0.3	-0.1			2343	3.1	0.9		1907	15.6	4.8		1824	13.6	4.1		2011	14.5	4.4		2011	14.5	4.4		
9	0627	15.5	4.7		24	0635	13.4	4.1		9	0158	1.6	0.5		24	0110	3.8	1.2		9	0228	2.6	0.8		
Th	1158	5.9	1.8		F	1151	8.4	2.6		Su	0857	15.4	4.7		M	0814	13.8	4.2		Tu	0913	16.6	5.1		
1756	17.5	5.3			1739	14.4	4.4		1443	6.1	1.9		1358	8.0	2.4		1531	3.9	1.2		1531	3.9	1.2		
									2038	14.7	4.5		1942	12.8	3.9		2135	13.9	4.2		2135	13.9	4.2		
10	0051	1.2	0.4		25	0041	4.4	1.3		10	0319	2.2	0.7		25	0216	4.3	1.3		10	0334	3.6	1.1		
F	0750	14.3	4.4		Sa	0755	12.6	3.8		M	1006	16.2	4.9		Tu	0913	14.4	4.4		W	1009	16.9	5.2		
1313	7.2	2.2			1305	9.3	2.8		1608	4.7	1.4		1521	6.9	2.1		1640	2.7	0.8		1640	2.7	0.8		
1910	15.9	4.8			1849	13.1	4.0		2208	14.9	4.5		2108	12.9	3.9		2251	14.1	4.3		2251	14.1	4.3		
11	0219	2.2	0.7		26	0205	5.1	1.6		11	0427	2.3	0.7		26	0322	4.4	1.3		11	0437	4.3	1.3		
Sa	0926	14.3	4.4		Su	0931	12.8	3.9		Tu	1101	17.2	5.2		W	1003	15.5	4.7		Th	1059	17.3	5.3		
1451	7.4	2.3			1456	9.2	2.8		1712	2.9	0.9		1625	5.1	1.6		1734	1.4	0.4		F	0941	16.7	5.1	
2050	15.1	4.6			2032	12.6	3.8		2317	15.7	4.8		2224	13.7	4.2		2354	14.7	4.5		2354	14.7	4.5		
12	0353	2.1	0.6		27	0334	4.9	1.5		12	0520	2.2	0.7		27	0422	4.1	1.2		12	0530	4.7	1.4		
Su	1045	15.4	4.7		M	1035	13.8	4.2		W	1147	18.3	5.6		Th	1045	16.8	5.1		F	1141	17.7	5.4		
1626	6.0	1.8			1624	7.8	2.4		1802	1.2	0.4		1715	2.8	0.9		1819	0.4	0.1		1819	0.4	0.1		
2224	15.6	4.8			2204	13.3	4.1						2325	15.0	4.6										
13	0504	1.3	0.4		28	0438	4.0	1.2		13	0013	16.6	5.1		28	0512	3.7	1.1		13	0045	15.5	4.7		
M	1141	16.9	5.2		Tu	1115	15.2	4.6		Th	0605	2.3	0.7		F	1125	18.3	5.6		Sa	0611	4.9	1.5		
1733	3.9	1.2			1717	5.8	1.8		1223	19.1	5.8		1758	0.5	0.2		1218	18.0	5.5		1218	18.0	5.5		
2336	16.9	5.2			2309	14.7	4.5		1841	-0.3	-0.1						1858	-0.5	-0.2		1858	-0.5	-0.2		
14	0555	0.6	0.2		29	0522	3.1	0.9		14	0058	17.4	5.3		29	0018	16.5	5.0		14	0127	16.2	4.9		
Tu	1223	18.4	5.6		W	1146	16.8	5.1		F	0642	2.5	0.8		Sa	0602	3.2	1.0		Su	0653	5.0	1.5		
1821	1.8	0.5			1755	3.6	1.1		1252	19.6	6.0		1207	19.8	6.0		1252	18.3	5.6		1252	18.3	5.6		
					2357	16.3	5.0		1916	-1.3	-0.4		1842	-1.7	-0.5		1935	-1.0	-0.3		1935	-1.0	-0.3		
15	0029	18.1	5.5		30	0601	2.2	0.7		15	0137	17.9	5.5		30	0108	17.8	5.4		15	0205	16.7	5.1		
W	0637	0.1	0.0		Th	1218	18.4	5.6		Sa	0719	2.8	0.9		Su	0647	2.8	0.9		M	0731	4.9	1.5		
1258	19.6	6.0			1831	1.2	0.4		1323	19.9	6.1		1247	21.0	6.4		1327	18.6	5.7		1327	18.6	5.7		
1900	0.1	0.0							1951	-1.8	-0.5		1926	-3.5	-1.1		2008	-1.4	-0.4		2008	-1.4	-0.4		
					31	0042	17.8	5.4																	
					F	0637	1.5	0.5																	
					1250	20.0	6.1																		
					1908	-0.9	-0.3																		

Time meridian 135° W. 0000 is midnight. 1200 is noon.
Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

Times and Heights of High and Low Waters

JANUARY								FEBRUARY								MARCH														
Time		Height		Time		Height		Time		Height		Time		Height		Time		Height		Time		Height		Time		Height				
Day				Day				Day				Day				Day				Day				Day						
	h	m	ft	m		h	m	ft	m		h	m	ft	m		h	m	ft	m		h	m	ft	m		h	m	ft	m	
1	0444	10.5	3.2		16	0533	11.1	3.4		1	0518	11.9	3.6		16	0537	10.6	3.2		1	0356	12.9	3.9		16	0355	11.5	3.5		
	W 1021	3.9	1.2			Th 1129	3.0	0.9		Sa	1150	1.5	0.5		Su	1224	2.7	0.8		Sa	1033	0.0	0.0		Su	1049	1.5	0.5		
	1555	11.0	3.4				1726	9.2	2.8			1755	8.7	2.7			1903	7.4	2.3			1636	9.8	3.0			1657	8.5	2.6	
	2246	0.2	0.1				2329	2.0	0.6			2337	2.6	0.8			2351	4.9	1.5			2227	2.2	0.7			2230	4.4	1.3	
2	0529	10.7	3.3		17	0616	10.9	3.3		2	0610	11.7	3.6		17	0633	10.1	3.1		2	0435	12.5	3.8		17	0427	10.8	3.3		
Th	1115	3.6	1.1		F	1227	3.1	0.9		Su	1257	1.5	0.5		M	1339	3.0	0.9		Su	1129	0.4	0.1		M	1137	2.3	0.7		
	1654	10.0	3.0			1835	8.2	2.5			1933	7.9	2.4			2048	7.2	2.2			1750	8.5	2.6			1819	7.6	2.3		
	2329	1.1	0.3													2314	3.5	1.1			2314	3.5	1.1			2309	5.3	1.6		
3	0615	11.0	3.4		18	0008	3.3	1.0		3	0035	3.9	1.2		18	0040	5.8	1.8		3	0528	11.8	3.6		18	0510	10.0	3.0		
F	1217	3.1	0.9		Sa	0703	10.7	3.3		M	0718	11.6	3.5		Tu	0747	9.9	3.0		M	1235	0.9	0.3		Tu	1240	2.8	0.9		
	1815	9.0	2.7			1332	3.1	0.9			1423	1.2	0.4			1520	2.7	0.8			1937	7.8	2.4			2010	7.3	2.2		
						1958	7.6	2.3			2112	7.8	2.4			2212	7.5	2.3							2358	6.1	1.9			
4	0016	2.1	0.6		19	0054	4.4	1.3		4	0151	4.8	1.5		19	0230	6.3	1.9		4	0013	4.7	1.4		19	0640	9.4	2.9		
Sa	0709	11.4	3.5		Su	0755	10.6	3.2		Tu	0832	11.7	3.6		W	0859	10.0	3.0		Tu	0649	11.1	3.4		W	1413	2.9	0.9		
	1330	2.5	0.8			1456	2.8	0.9			1552	0.3	0.1			1631	1.8	0.5			1405	1.2	0.4			2141	7.6	2.3		
	1950	8.4	2.6			2119	7.5	2.3			2242	8.3	2.5			2316	8.1	2.5			2118	7.9	2.4							
5	0115	3.1	0.9		20	0200	5.3	1.6		5	0328	5.0	1.5		20	0413	5.8	1.8		5	0139	5.4	1.6		20	0143	6.4	2.0		
Su	0804	11.9	3.6		M	0846	10.7	3.3		W	0944	12.0	3.7		Th	1002	10.5	3.2		W	0822	10.9	3.3		Th	0824	9.4	2.9		
	1451	1.4	0.4			1605	2.1	0.6			1658	-0.8	-0.2			1719	0.8	0.2			1541	0.7	0.2			1546	2.3	0.7		
	2115	8.4	2.6			2234	7.9	2.4			2345	9.2	2.8			2359	8.8	2.7			2234	8.6	2.6			2239	8.3	2.5		
6	0224	3.9	1.2		21	0323	5.6	1.7		6	0447	4.3	1.3		21	0506	5.0	1.5		6	0333	5.1	1.6		21	0344	5.8	1.8		
M	0901	12.4	3.8		Tu	0938	10.9	3.3		Th	1050	12.5	3.8		F	1055	11.2	3.4		Th	0945	11.2	3.4		F	0936	10.0	3.0		
	1605	0.1	0.0			1701	1.2	0.4			1751	-1.8	-0.5			1756	-0.2	-0.1			1650	-0.2	-0.1			1639	1.3	0.4		
	2231	8.9	2.7			2336	8.4	2.6												2332	9.5	2.9			2317	9.1	2.8			
7	0341	4.2	1.3		22	0435	5.5	1.7		7	0036	10.0	3.0		22	0032	9.6	2.9		7	0450	4.0	1.2		22	0442	4.6	1.4		
Tu	0954	13.0	4.0		W	1027	11.3	3.4		F	0546	3.4	1.0		Sa	0548	4.0	1.2		F	1051	11.7	3.6		Sa	1029	10.7	3.3		
	1704	-1.2	-0.4			1740	0.4	0.1			1148	13.0	4.0			1143	11.9	3.6			1738	-1.0	-0.3			1718	0.3	0.1		
	2340	9.5	2.9								1836	-2.4	-0.7			1827	-1.0	-0.3							2346	10.1	3.1			
8	0450	4.0	1.2		23	0022	8.9	2.7		8	0116	10.8	3.3		23	0102	10.4	3.2		8	0015	10.4	3.2		23	0524	3.2	1.0		
W	1051	13.5	4.1		Th	0522	5.0	1.5		Sa	0636	2.5	0.8		Su	0625	3.0	0.9		Sa	0543	2.7	0.8		Su	1120	11.5	3.5		
	1756	-2.3	-0.7			1114	11.7	3.6			1240	13.4	4.1			1222	12.5	3.8			1146	12.3	3.7			1753	-0.4	-0.1		
						1818	-0.4	-0.1			1916	-2.7	-0.8			1900	-1.6	-0.5			1817	-1.5	-0.5							
9	0039	10.2	3.1		24	0101	9.5	2.9		9	0154	11.4	3.5		24	0129	11.1	3.4		9	0050	11.2	3.4		24	0018	11.0	3.4		
Th	0548	3.5	1.1		F	0604	4.5	1.4		Su	0718	1.8	0.5		M	0700	2.0	0.6		Su	0625	1.6	0.5		M	0603	1.8	0.5		
	1146	13.9	4.2			1156	12.2	3.7			1325	13.4	4.1			1300	12.9	3.9			1233	12.6	3.8			1202	12.2	3.7		
	1844	-2.9	-0.9			1851	-1.1	-0.3			1953	-2.5	-0.8			1929	-1.8	-0.5			1854	-1.6	-0.5			1825	-0.9	-0.3		
10	0128	10.8	3.3		25	0132	10.0	3.0		10	0228	11.8	3.6		25	0157	11.8	3.6		10	0122	11.9	3.6		25	0044	12.0	3.7		
F	0638	3.1	0.9		Sa	0641	3.9	1.2		M	0801	1.3	0.4		Tu	0739	1.1	0.3		M	0705	0.7	0.2		Tu	0641	0.5	0.2		
	1240	14.1	4.3			1238	12.7	3.9			1405	13.1	4.0			1341	13.0	4.0			1314	12.6	3.8			1245	12.6	3.8		
	1929	-3.2	-1.0			1923	-1.6	-0.5			2028	-2.0	-0.6			2001	-1.7	-0.5			1926	-1.4	-0.4			1857	-1.0	-0.3		
11	0213	11.2	3.4		26	0201	10.5	3.2		11	0258	12.1	3.7		26	0222	12.4	3.8		11	0151	12.3	3.7		26	0113	12.9	3.9		
Sa	0727	2.7	0.8		Su	0717	3.4	1.0		Tu	0842	1.1	0.3		W	0818	0.4	0.1		Tu	0742	0.2	0.1		W	0717	-0.6	-0.2		
	1331	14.0	4.3			1315	12.9	3.9			1445	12.4	3.8			1418	12.8	3.9			1351	12.4	3.8			1327	12.7	3.9		
	2013	-3.0	-0.9			1958	-1.8	-0.5			2102	-1.2	-0.4			2036	-1.1	-0.3			1957	-0.8	-0.2			1932	-0.7	-0.2		
12	0255	11.4	3.5		27	0233	10.9	3.3		12	0330	12.1	3.7		27	0251	12.9	3.9		12	0218	12.6	3.8		27	0142	13.6	4.1		
Su	0813	2.5	0.8		M	0756	2.9	0.9		W	0922	1.2	0.4		Th	0900	0.0	0.0		W	0818	0.0	0.0		Th	0759	-1.4	-0.4		
	1417	13.5	4.1			1351	13.0	4.0			1522	1.5	3.5			1459	12.1	3.7			1427	11.9	3.6			1410	12.5	3.8		
	2054	-2.5	-0.8			2030	-1.8	-0.5			2137	-0.1	0.0			2111	-0.2	-0.1			2029	0.0	0.0			2007	0.0	0.0		
13	0334	11.5	3.5		28	0300	11.3	3.4		13	0357	11.9	3.6		28	0321	13.0	4.0		13	0241	12.6	3.8		28	0214	13.9	4.2		
M	0902	2.4	0.7		Tu	0835	2.4	0.7		Th	1004	1.4	0.4		F	0945	-0.2	-0.1		Th	0855	0.0	0.0		F	0841	-1.8	-0.5		
	1459	12.8	3.9			1429	12.7	3.9			1600	10.5	3.2			1545	11.1	3.4			1500	11.3	3.4		</					

APRIL

MAY

JUNE

Time meridian 135° W. 0000 is midnight. 1200 is noon.
Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

Times and Heights of High and Low Waters

JULY								AUGUST								SEPTEMBER											
Time		Height		Time		Height		Time		Height		Time		Height		Time		Height		Time		Height		Time		Height	
Day	h m	ft	m	Day	h m	ft	m	Day	h m	ft	m	Day	h m	ft	m	Day	h m	ft	m	Day	h m	ft	m	Day	h m	ft	m
1	0318	2.0	0.6	16	0206	1.4	0.4	1	0441	1.3	0.4	16	0423	-0.3	-0.1	1	0541	0.4	0.1	16	0548	-1.0	-0.3	Tu	1220	11.6	3.5
Tu	0926	7.9	2.4	W	0831	7.9	2.4	F	1116	8.1	2.5	Sa	1108	8.9	2.7	M	1212	9.8	3.0	Tu	1220	11.6	3.5				
	1443	3.8	1.2		1337	3.4	1.0		1619	5.3	1.6		1610	4.4	1.3		1735	4.0	1.2								
	2115	11.0	3.4		2022	11.8	3.6		2214	10.9	3.3		2216	12.4	3.8		2330	11.8	3.6								
2	0416	1.2	0.4	17	0325	0.4	0.1	2	0527	0.5	0.2	17	0522	-1.3	-0.4	2	0613	-0.3	-0.1	17	0008	13.0	4.0				
W	1031	8.0	2.4	Th	0954	8.1	2.5	Sa	1209	8.7	2.7	Su	1202	9.7	3.0	Tu	1240	10.5	3.2	W	0627	-1.2	-0.4				
	1545	4.2	1.3		1456	4.0	1.2		1711	4.8	1.5		1716	3.4	1.0		1812	3.1	0.9								
	2156	11.2	3.4		2120	12.3	3.7		2303	11.3	3.4		2319	13.0	4.0												
3	0503	0.5	0.2	18	0431	-0.8	-0.2	3	0605	-0.2	-0.1	18	0608	-2.1	-0.6	3	0009	12.4	3.8	18	0054	13.1	4.0				
Th	1129	8.3	2.5	F	1104	8.6	2.6	Su	1244	9.2	2.8	M	1246	10.6	3.2	W	0642	-0.8	-0.2	Th	0702	-1.0	-0.3				
	1639	4.4	1.3		1613	3.9	1.2		1753	4.3	1.3		1807	2.4	0.7		1309	11.2	3.4								
	2237	11.4	3.5		2218	12.8	3.9		2346	11.8	3.6						1844	2.2	0.7								
4	0544	-0.2	-0.1	19	0530	-2.0	-0.6	4	0641	-0.8	-0.2	19	0013	13.4	4.1	4	0046	12.7	3.9	19	0132	12.9	3.9				
F	1220	8.7	2.7	Sa	1209	9.3	2.8	M	1316	9.7	3.0	Tu	0650	-2.5	-0.8	Th	0710	-0.9	-0.3	F	0734	-0.4	-0.1				
	1724	4.3	1.3		1716	3.4	1.0		1828	3.7	1.1		1326	11.4	3.5		1334	11.9	3.6								
	2318	11.6	3.5		2316	13.4	4.1						1854	1.5	0.5		1921	1.4	0.4								
5	0623	-0.7	-0.2	20	0618	-2.9	-0.9	5	0025	12.2	3.7	20	0102	13.6	4.1	5	0122	12.9	3.9	20	0211	12.4	3.8				
Sa	1302	9.1	2.8	Su	1301	10.0	3.0	Tu	0711	-1.2	-0.4	W	0729	-2.5	-0.8	F	0741	-0.8	-0.2	Sa	0807	0.5	0.2				
	1805	4.2	1.3		1812	2.8	0.9		1348	10.2	3.1		1401	11.9	3.6		1359	12.5	3.8								
	2357	11.9	3.6						1906	3.2	1.0		1937	0.9	0.3		1957	0.7	0.2								
6	0657	-1.1	-0.3	21	0015	13.7	4.2	6	0102	12.5	3.8	21	0148	13.4	4.1	6	0159	12.7	3.9	21	0247	11.8	3.6				
Su	1341	9.4	2.9	M	0707	-3.4	-1.0	W	0742	-1.5	-0.5	Th	0808	-2.0	-0.6	Sa	0813	-0.3	-0.1	Su	0839	1.6	0.5				
	1844	4.0	1.2		1350	10.6	3.2		1415	10.6	3.2		1435	12.3	3.7		1424	12.9	3.9								
					1903	2.2	0.7		1941	2.7	0.8		2021	0.6	0.2		2036	0.3	0.1								
7	0036	12.1	3.7	22	0108	13.8	4.2	7	0138	12.5	3.8	22	0228	12.8	3.9	7	0236	12.2	3.7	22	0322	10.9	3.3				
M	0731	-1.3	-0.4	Tu	0751	-3.4	-1.0	Th	0813	-1.5	-0.5	F	0842	-1.2	-0.4	Su	0845	0.5	0.2	M	0913	2.8	0.9				
	1413	9.6	2.9		1432	11.1	3.4		1442	11.0	3.4		1506	12.4	3.8		1453	13.1	4.0								
	1920	3.9	1.2		1951	1.8	0.5		2018	2.3	0.7		2105	0.6	0.2		2118	0.1	0.0								
8	0114	12.2	3.7	23	0157	13.6	4.1	8	0213	12.4	3.8	23	0308	11.9	3.6	8	0318	11.4	3.5	23	0405	10.0	3.0				
Tu	0806	-1.4	-0.4	W	0834	-3.1	-0.9	F	0845	-1.2	-0.4	Sa	0919	0.0	0.0	M	0921	1.5	0.5	Tu	0945	4.0	1.2				
	1445	9.8	3.0		1511	11.4	3.5		1509	11.4	3.5		1537	12.2	3.7		1524	13.1	4.0								
	1957	3.7	1.1		2039	1.6	0.5		2057	1.9	0.6		2147	0.9	0.3		2204	0.2	0.1								
9	0150	12.1	3.7	24	0245	12.9	3.9	9	0249	11.9	3.6	24	0351	10.9	3.3	9	0407	10.3	3.1	24	0454	9.0	2.7				
W	0841	-1.4	-0.4	Th	0916	-2.3	-0.7	Sa	0918	-0.6	-0.2	Su	0953	1.3	0.4	Tu	0959	2.6	0.8	W	1022	5.0	1.5				
	1519	9.9	3.0		1551	11.5	3.5		1537	11.6	3.5		1607	11.9	3.6		1601	12.8	3.9								
	2035	3.6	1.1		2130	1.6	0.5		2140	1.7	0.5		2230	1.3	0.4		2256	0.6	0.2								
10	0225	11.9	3.6	25	0330	12.0	3.7	10	0327	11.1	3.4	25	0436	9.7	3.0	10	0510	9.1	2.8	25	0622	8.2	2.5				
Th	0913	-1.2	-0.4	F	0956	-1.3	-0.4	Su	0953	0.3	0.1	M	1025	2.6	0.8	W	1046	3.8	1.2	Th	1104	6.0	1.8				
	1551	10.0	3.0		1630	11.4	3.5		1607	11.8	3.6		1641	11.3	3.4		1651	12.1	3.7								
	2116	3.5	1.1		2220	1.8	0.5		2225	1.5	0.5		2315	1.9	0.6		2358	1.1	0.3								
11	0257	11.5	3.5	26	0417	10.8	3.3	11	0415	10.1	3.1	26	0533	8.6	2.6	11	0655	8.3	2.5	26	0027	3.2	1.0				
F	0950	-0.8	-0.2	Sa	1035	0.0	0.0	M	1028	1.3	0.4	Tu	1103	3.9	1.2	Th	1143	4.9	1.5	F	0807	8.0	2.4				
	1624	10.2	3.1		1710	11.2	3.4		1644	11.8	3.6		1720	10.7	3.3		1803	11.4	3.5								
	2203	3.3	1.0		2312	2.0	0.6		2318	1.4	0.4																
12	0339	10.8	3.3	27	0512	9.5	2.9	12	0518	9.0	2.7	27	0011	2.6	0.8	12	0118	1.4	0.4	27	0200	3.4	1.0				
Sa	1025	-0.2	-0.1	Su	1112	1.4	0.4	Tu	1110	2.5	0.8	W	0657	7.8	2.4	F	0838	8.3	2.5	Sa	0925	8.4	2.6				
	1700	10.4	3.2		1752	11.0	3.4		1731	11.7	3.6		1145	5.1	1.6		1303	5.6	1.7								
	2252	3.0	0.9										1819	10.2	3.1		1945	11.1	3.4								
13	0428	9.9	3.0	28	0003	2.3	0.7	13	0021	1.4	0.4	28	0122	3.0	0.9	13	0254	1.2	0.4	28	0331	2.8	0.9				
Su	1104	0.6	0.2	M	0621	8.4	2.6	W	0648	8.0	2.4	Th	0833	7.6	2.3	Sa	0954	8.9	2.7	Su	1018	9.0	2.7				
	1741	10.7	3.3		1152	2.8	0.9		1202	3.7	1.1		1244	6.0	1.8		1451	5.4	1.6								
	2345	2.6	0.8		1840	10.7	3.3		1835	11.5	3.5		1937	9.9	3.0		2112	11.4	3.5								
14	0534	8.9	2.7	29	0107	2.5	0.8	14	0137	1.3	0.4	29	0259	2.9	0.9	14	0413	0.4	0.1	29	0423	2.0	0.6				
M	1146	1.5	0.5	Tu	0738	7.7	2.3	Th	0830	7.8	2.4	F	0955	7.9	2.4	Su	1055	9.8	3.0	W	1054	9.8	3.0				
	1830	11.0	3.4		1235	4.0	1.2		1308	4.6	1.4		1427	6.3	1.9		1616	4.3	1.3								
					1932	10.5	3.2		1953	11.5	3.5		2														

Times and Heights of High and Low Waters

OCTOBER				NOVEMBER				DECEMBER			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
Day	h m ft m	Day	h m ft m	Day	h m ft m	Day	h m ft m	Day	h m ft m	Day	h m ft m
1 0533 0.6 0.2		16 0558 0.5 0.2		1 0009 12.0 3.7		16 0108 11.1 3.4		1 0046 11.3 3.4		16 0141 10.3 3.1	
W 1153 11.5 3.5		Th 1215 13.1 4.0		Sa 0559 1.5 0.5		Su 0636 3.2 1.0		M 0612 2.9 0.9		Tu 0649 4.3 1.3	
1746 2.2 0.7		1825 0.0 0.0		1204 14.2 4.3		1233 13.5 4.1		1209 14.9 4.5		1241 12.8 3.9	
2346 12.2 3.7				1836 -1.4 -0.4		1914 -1.0 -0.3		1903 -3.0 -0.9		1935 -1.0 -0.3	
2 0604 0.2 0.1		17 0039 12.2 3.7		2 0054 12.2 3.7		17 0145 11.0 3.4		2 0137 11.5 3.5		17 0216 10.3 3.1	
Th 1220 12.4 3.8		F 0631 0.9 0.3		Su 0636 1.8 0.5		M 0708 3.7 1.1		Tu 0656 3.0 0.9		W 0726 4.4 1.3	
1822 1.0 0.3		1242 13.5 4.1		1237 14.8 4.5		1300 13.4 4.1		1255 15.1 4.6		1315 12.7 3.9	
		1900 -0.6 -0.2		1917 -2.2 -0.7		1949 -0.8 -0.2		1949 -3.2 -1.0		2010 -0.8 -0.2	
3 0025 12.6 3.8		18 0119 12.1 3.7		3 0139 12.2 3.7		18 0221 10.8 3.3		3 0226 11.4 3.5		18 0251 10.3 3.1	
F 0633 0.2 0.1		Sa 0703 1.5 0.5		M 0715 2.3 0.7		Tu 0740 4.2 1.3		W 0743 3.2 1.0		Th 0800 4.6 1.4	
1248 13.2 4.0		1309 13.6 4.1		1312 15.0 4.6		1329 13.1 4.0		1340 14.9 4.5		1349 12.5 3.8	
1857 -0.1 0.0		1935 -0.8 -0.2		1959 -2.4 -0.7		2023 -0.5 -0.2		2037 -3.0 -0.9		2045 -0.6 -0.2	
4 0107 12.8 3.9		19 0155 11.8 3.6		4 0225 11.9 3.6		19 0259 10.5 3.2		4 0318 11.2 3.4		19 0326 10.1 3.1	
Sa 0706 0.4 0.1		Su 0734 2.3 0.7		Tu 0757 2.9 0.9		W 0814 4.7 1.4		Th 0834 3.5 1.1		F 0839 4.7 1.4	
1315 13.9 4.2		1334 13.5 4.1		1352 14.9 4.5		1401 12.7 3.9		1429 14.2 4.3		1421 12.2 3.7	
1936 -0.9 -0.3		2009 -0.6 -0.2		2047 -2.2 -0.7		2102 0.1 0.0		2127 -2.3 -0.7		2122 -0.3 -0.1	
5 0147 12.7 3.9		20 0229 11.4 3.5		5 0316 11.3 3.4		20 0335 10.0 3.0		5 0414 10.9 3.3		20 0402 10.0 3.0	
Su 0741 1.0 0.3		M 0806 3.2 1.0		W 0839 3.6 1.1		Th 0852 5.2 1.6		F 0930 3.9 1.2		Sa 0918 4.8 1.5	
1343 14.3 4.4		1400 13.2 4.0		1434 14.3 4.4		1433 12.2 3.7		1522 13.2 4.0		1456 11.7 3.6	
2015 -1.3 -0.4		2045 -0.2 -0.1		2136 -1.6 -0.5		2141 0.6 0.2		2220 -1.4 -0.4		2159 0.2 0.1	
6 0229 12.2 3.7		21 0306 10.8 3.3		6 0415 10.5 3.2		21 0424 9.5 2.9		6 0513 10.7 3.3		21 0444 9.9 3.0	
M 0816 1.8 0.5		Tu 0838 4.1 1.2		Th 0932 4.4 1.3		F 0932 5.7 1.7		Sa 1029 4.1 1.2		Su 1004 4.9 1.5	
1416 14.3 4.4		1426 12.8 3.9		1523 13.3 4.1		1505 11.5 3.5		1624 11.9 3.6		1535 10.9 3.3	
2100 -1.2 -0.4		2121 0.5 0.2		2232 -0.7 -0.2		2225 1.2 0.4		2314 -0.4 -0.1		2236 0.7 0.2	
7 0314 11.4 3.5		22 0345 10.1 3.1		7 0528 9.9 3.0		22 0520 9.2 2.8		7 0619 10.6 3.2		22 0526 9.9 3.0	
Tu 0855 2.8 0.9		W 0913 4.9 1.5		F 1032 5.0 1.5		Sa 1020 6.0 1.8		Su 1136 4.3 1.3		M 1054 4.9 1.5	
1451 14.0 4.3		1455 12.1 3.7		1622 12.1 3.7		1547 10.7 3.3		1740 10.6 3.2		1621 10.1 3.1	
2148 -0.8 -0.2		2203 1.3 0.4		2334 0.3 0.1		2310 1.8 0.5				2317 1.3 0.4	
8 0407 10.4 3.2		23 0433 9.3 2.8		8 0651 9.8 3.0		23 0632 9.1 2.8		8 0008 0.7 0.2		23 0613 10.1 3.1	
W 0940 3.9 1.2		Th 0948 5.7 1.7		Sa 1145 5.4 1.6		Su 1121 6.2 1.9		M 0721 10.9 3.3		Tu 1150 4.6 1.4	
1532 13.3 4.1		1527 11.3 3.4		1755 10.9 3.3		1646 9.8 3.0		1251 4.1 1.2		1729 9.2 2.8	
2241 0.0 0.0		2249 2.1 0.6						1906 9.7 3.0		2358 2.0 0.6	
9 0521 9.4 2.9		24 0552 8.7 2.7		9 0043 1.1 0.3		24 0002 2.2 0.7		9 0108 1.8 0.5		24 0659 10.5 3.2	
Th 1033 4.9 1.5		F 1038 6.4 2.0		Su 0803 10.2 3.1		M 0731 9.4 2.9		Tu 0813 11.3 3.4		W 1255 4.0 1.2	
1627 12.2 3.7		1609 10.4 3.2		1311 5.2 1.6		1229 6.0 1.8		1415 3.5 1.1		1859 8.5 2.6	
2345 0.8 0.2		2345 2.8 0.9		1935 10.3 3.1		1822 9.2 2.8		2025 9.2 2.8			
10 0703 8.9 2.7		25 0728 8.5 2.6		10 0157 1.6 0.5		25 0058 2.6 0.8		10 0210 2.6 0.8		25 0047 2.7 0.8	
F 1142 5.6 1.7		Sa 1142 6.8 2.1		M 0902 10.8 3.3		Tu 0820 10.0 3.0		W 0901 11.7 3.6		Th 0748 11.1 3.4	
1754 11.1 3.4		1731 9.6 2.9		1449 4.3 1.3		1351 5.3 1.6		1528 2.4 0.7		1408 3.1 0.9	
				2054 10.3 3.1		1954 9.0 2.7		2136 9.1 2.8		2024 8.4 2.6	
11 0106 1.4 0.4		26 0055 3.1 0.9		11 0307 1.8 0.5		26 0157 2.8 0.9		11 0312 3.2 1.0		26 0146 3.4 1.0	
Sa 0832 9.2 2.8		Su 0837 8.9 2.7		Tu 0946 11.6 3.5		W 0857 10.8 3.3		Th 0941 12.0 3.7		F 0834 11.8 3.6	
1314 5.9 1.8		1313 6.8 2.1		1600 2.9 0.9		1507 4.0 1.2		1627 1.4 0.4		1523 1.7 0.5	
1947 10.7 3.3		1931 9.3 2.8		2200 10.4 3.2		2104 9.3 2.8		2239 9.3 2.8		2138 8.7 2.7	
12 0235 1.5 0.5		27 0214 3.0 0.9		12 0402 1.9 0.6		27 0259 2.9 0.9		12 0408 3.7 1.1		27 0255 3.9 1.2	
Su 0938 10.0 3.0		M 0925 9.6 2.9		W 1027 12.2 3.7		Th 0933 11.7 3.6		F 1021 12.3 3.7		Sa 0923 12.5 3.8	
1501 5.1 1.6		1454 5.9 1.8		1648 1.6 0.5		1603 2.3 0.7		1712 0.4 0.1		1623 0.2 0.1	
2109 11.0 3.4		2048 9.7 3.0		2255 10.6 3.2		2205 9.8 3.0		2332 9.6 2.9		2247 9.2 2.8	
13 0349 1.1 0.3		28 0320 2.6 0.8		13 0447 2.1 0.6		28 0352 2.9 0.9		13 0453 3.9 1.2		28 0402 4.0 1.2	
M 1026 10.8 3.3		Tu 1000 10.4 3.2		Th 1103 12.8 3.9		F 1009 12.7 3.9		Sa 1056 12.6 3.8		Su 1013 13.3 4.1	
1616 3.7 1.1		1557 4.6 1.4		1730 0.4 0.1		1651 0.6 0.2		1751 -0.3 -0.1		1718 -1.3 -0.4	
2215 11.4 3.5		2145 10.3 3.1		2343 10.8 3.3		2301 10.4 3.2				2348 9.8 3.0	
14 0440 0.6 0.2		29 0408 2.1 0.6		14 0527 2.3 0.7		29 0440 2.9 0.9		14 0023 9.9 3.0		29 0503 3.8 1.2	
Tu 1108 11.7 3.6		W 1032 11.4 3.5		F 1134 13.2 4.0		Sa 1047 13.6 4.1		Su 0535 4.1 1.2		M 1103 13.9 4.2	
1706 2.2 0.7		1642 3.0 0.9		1806 -0.4 -0.1		1734 -1.0 -0.3		1132 12.7 3.9		1807 -2.5 -0.8	
2308 11.8 3.6		2234 10.9 3.3				2353 10.9 3.3		1826 -0.7 -0.2			
15 0523 0.4 0.1		30 0447 1.7 0.5		15 0028 11.0 3.4		30 0525 2.9 0.9		15 0105 10.1 3.1		30 0043 10.4 3.2	
W 1143 12.5 3.8		Th 1101 12.4 3.8		Sa 0601 2.7 0.8		Su 1127 14.4 4.4		M 0614 4.2 1.3		Tu 0555 3.4 1.0	
1748 0.9 0.3		1719 1.4 0.4		1841 -0.8 -0.2		1818 -2.2 -0.7		1207 12.8 3.9		1156 14.4 4.4	
2356 12.1 3.7		2322 11.5 3.5						1901 -0.9 -0.3		1855 -3.3 -1.0	
		31 0522 1.5 0.5								31 0135 10.9 3.3	
		F 1132 13.3 4.1								W 0646 3.0 0.9	
		1756 -0.1 0.0								1247 14.7 4.5	
										1941 -3.6 -1.1	

Time meridian 135° W. 0000 is midnight. 1200 is noon.
 Heights are referred to mean lower low water which is the chart datum of soundings.

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1986

Lat. 61° 14' N Long. 149° 54' W

JANUARY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	19.3	14.2	9.3	5.0	1.2	.0	6.2	13.5	19.4	24.2	27.1	27.4
W	25.0	20.7	15.8	11.3	7.5	5.0	8.1	14.8	19.9	23.6	25.9	25.9
2	22.5	17.7	12.7	8.2	4.3	1.0	2.1	9.3	16.1	21.6	25.5	27.7
Th	27.0	23.9	19.2	14.2	10.0	6.4	4.5	8.1	14.1	19.5	23.1	25.3
3	24.9	21.6	17.1	12.3	8.2	4.5	1.9	4.5	11.4	18.0	23.0	26.3
F	27.9	26.6	23.3	18.1	13.2	9.1	5.4	3.8	6.9	12.6	18.3	22.1
4	24.5	24.2	21.6	17.7	13.3	9.3	5.6	3.7	6.4	12.6	19.0	23.5
Sa	26.6	27.9	26.6	23.0	17.6	12.7	8.5	4.7	2.8	4.9	10.5	16.6
5	20.8	23.8	24.1	22.6	19.3	15.2	11.1	7.5	5.6	7.4	12.9	19.2
Su	23.5	26.6	27.9	26.8	23.1	17.6	12.7	8.2	4.1	1.4	2.7	8.3
6	14.7	19.7	23.2	24.5	24.1	21.5	17.5	13.0	9.3	6.8	7.7	12.7
M	18.9	23.2	26.6	28.2	27.3	23.4	18.0	12.8	8.1	3.6	.3	.7
7	6.1	13.2	19.0	23.2	25.4	26.0	23.7	19.3	14.6	10.5	7.2	7.6
Tu	12.2	18.5	23.1	27.0	28.9	27.9	23.7	18.4	13.0	8.1	3.2	-5.5
8	-1.0	4.7	12.5	19.0	23.6	26.6	27.5	25.1	20.3	15.3	10.7	7.1
W	7.0	11.8	18.5	23.4	27.8	29.7	28.4	23.9	18.4	12.9	7.9	3.0
9	-1.3	-2.3	4.4	12.8	19.8	24.5	27.8	28.4	25.5	20.2	15.1	10.1
Th	6.7	6.2	11.9	18.9	24.4	28.9	30.4	28.5	23.7	18.1	12.7	7.4
10	2.8	-2.4	-2.6	5.5	14.2	21.2	25.7	28.8	28.6	24.9	19.4	14.0
F	9.2	5.8	5.5	12.7	19.8	25.6	29.7	30.9	28.2	23.0	17.3	11.9
11	6.7	2.0	-3.6	-1.5	7.7	16.4	22.8	27.2	29.5	28.0	23.6	18.1
Sa	12.5	8.2	4.4	5.7	14.0	21.0	26.6	30.3	30.9	27.4	21.8	16.2
12	10.7	5.7	.6	-3.9	1.3	10.7	18.8	24.5	28.5	29.5	26.9	22.0
Su	16.4	11.0	7.0	3.3	6.8	15.5	22.0	27.0	30.3	30.1	25.9	20.1
13	14.6	9.1	4.3	-1.0	-2.4	5.2	14.1	21.1	26.2	29.4	28.9	25.3
M	20.2	14.5	9.7	5.6	3.0	8.7	16.8	22.6	27.0	29.6	28.5	23.8
14	18.0	12.6	7.4	2.8	-1.5	.9	9.5	17.3	23.2	27.6	29.5	27.7
Tu	23.4	18.1	12.7	8.5	4.4	3.9	10.7	17.8	22.8	26.5	28.2	26.3
15	21.5	15.8	10.7	6.0	1.7	-2.2	5.3	13.5	20.1	25.0	28.4	28.8
W	26.0	21.2	16.0	11.1	7.3	3.8	5.4	12.1	18.2	22.5	25.5	26.3
16	23.9	19.3	14.1	9.4	5.3	2.0	2.9	9.5	16.7	22.1	26.0	28.2
Th	27.5	23.9	19.0	14.1	9.8	6.2	4.0	6.7	12.7	18.0	21.7	24.1
17	24.2	21.9	17.9	13.2	9.1	5.6	3.8	6.5	12.8	18.7	23.2	26.1
F	27.2	25.8	22.0	17.3	12.7	8.9	5.5	4.4	7.2	12.3	17.1	20.6
18	22.6	22.6	20.9	17.8	13.7	10.1	7.2	6.4	9.3	14.5	19.4	23.2
Sa	25.4	26.0	24.3	20.6	16.2	12.1	8.3	5.2	4.4	6.7	11.1	15.7
19	19.2	21.3	21.8	21.1	18.9	15.3	11.9	9.5	8.8	10.8	14.9	19.2
Su	22.4	24.3	24.9	23.3	20.0	15.9	11.9	8.0	4.9	3.8	5.5	9.6
20	14.4	18.1	20.8	22.0	22.3	20.6	17.2	14.0	11.5	10.0	11.0	14.3
M	18.6	21.5	23.6	24.4	22.9	19.8	16.0	11.8	7.8	4.4	2.7	3.9
21	8.4	13.7	17.9	21.2	23.2	24.1	22.3	18.7	15.4	12.3	9.9	10.3
Tu	13.8	18.1	21.1	23.7	24.5	23.1	19.9	15.9	11.6	7.3	3.6	1.3
22	2.7	8.2	13.8	18.7	22.4	24.9	25.4	23.1	19.2	15.5	11.7	9.0
W	9.5	13.9	18.4	21.8	24.6	25.3	23.4	19.7	15.4	10.9	6.5	2.4
23	-1.1	2.5	9.2	15.2	20.4	24.1	26.4	25.9	22.6	18.3	14.2	10.2
Th	7.6	9.4	15.1	19.7	23.5	26.1	26.2	23.4	19.1	14.4	9.7	5.3
24	.9	-1.0	3.8	11.2	17.6	22.5	26.0	27.2	25.3	21.2	16.4	12.0
F	8.3	6.5	10.5	16.9	21.7	25.6	27.6	26.7	22.8	17.9	12.9	8.1
25	3.7	-1.8	-1.7	6.3	14.0	20.3	24.7	27.6	27.2	24.0	19.1	14.0
Sa	9.7	6.3	6.3	12.6	19.0	24.0	27.5	28.8	26.5	21.7	16.4	11.1
26	6.3	1.8	-2.0	1.3	9.5	17.1	22.8	26.7	28.4	26.4	22.2	16.8
Su	11.6	7.6	4.6	7.4	15.1	21.1	26.0	28.9	29.1	25.4	20.2	14.6
27	9.1	4.4	-1.3	-1.8	4.8	12.9	20.2	25.1	28.3	28.3	25.1	20.2
M	14.6	9.5	5.6	3.8	9.8	17.4	22.9	27.3	29.5	28.3	23.6	18.1
28	12.5	7.0	2.3	-1.8	.7	9.0	16.5	22.9	27.1	29.1	27.3	23.2
Tu	18.0	12.4	7.7	3.8	4.3	12.4	19.3	24.4	28.0	29.4	26.6	21.4
29	15.7	10.2	4.9	.4	-1.5	5.0	13.3	20.0	25.4	28.7	28.9	25.8
W	21.0	15.5	10.3	5.9	2.4	5.9	14.6	20.7	25.3	28.2	28.4	24.5
30	19.1	13.4	8.1	3.3	-1.6	.9	9.8	17.3	23.1	27.5	29.6	28.0
Th	23.6	18.4	13.0	8.3	4.0	1.9	7.5	15.7	21.6	25.6	27.9	26.9
31	22.5	17.1	11.7	6.8	2.5	.1	4.7	13.8	20.5	25.5	28.0	29.6
F	26.7	21.8	16.0	10.9	6.6	2.6	2.1	8.3	15.9	21.7	25.2	26.9

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

FEBRUARY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 Sa	25.3 28.8	21.3 25.4	16.1 20.2	11.1 14.3	6.7 9.6	3.0 5.6	2.4 2.0	8.4 2.3	16.4 7.9	22.6 15.0	26.7 20.6	29.2 23.9
2 Su	25.5 28.5	24.1 27.7	21.0 24.5	16.5 19.3	12.0 13.8	7.9 9.4	4.9 5.3	5.3 2.1	10.7 2.1	17.5 6.5	23.1 13.2	26.5 18.5
3 M	22.1 25.3	24.0 27.2	23.7 26.9	21.8 24.3	18.2 19.4	14.1 14.4	10.2 10.0	7.6 5.9	7.7 2.5	11.4 1.6	17.1 4.7	22.1 10.5
4 Tu	16.0 20.4	20.3 23.8	23.0 26.3	24.1 26.7	23.5 24.7	20.7 20.3	16.7 15.6	12.8 11.0	9.9 6.7	8.7 2.8	10.8 .9	15.6 2.4
5 W	7.8 13.6	14.1 18.7	19.3 22.8	22.8 26.1	25.1 27.2	25.5 25.6	23.1 21.5	18.8 16.8	14.7 12.0	11.0 7.4	8.6 3.1	9.5 .1
6 Th	.1 7.5	6.0 12.0	13.3 17.9	19.3 22.9	23.3 26.7	26.6 28.2	27.3 26.7	24.6 22.5	19.9 17.5	15.3 12.4	10.8 7.5	7.8 3.2
7 F	-1.2 6.4	-1.4 5.7	6.0 11.5	14.1 18.3	20.3 23.9	24.5 27.8	28.0 29.3	28.2 27.3	24.9 22.7	19.7 17.4	14.5 12.1	9.8 7.2
8 Sa	2.7 8.6	-2.8 4.4	-1.1 4.8	7.7 12.4	16.1 19.5	21.9 25.3	26.3 29.1	29.1 30.2	28.2 27.2	23.9 22.1	18.4 16.6	12.9 11.1
9 Su	6.4 11.0	1.3 6.9	-3.7 2.4	1.2 5.5	10.7 14.2	18.7 21.1	24.1 26.7	28.1 30.2	29.5 30.4	27.2 26.4	22.2 20.8	16.4 15.2
10 M	9.6 14.1	5.0 9.2	-8 4.7	-2.7 1.5	5.2 7.6	14.3 16.2	21.5 22.7	26.4 27.7	29.6 30.7	29.1 29.5	25.5 24.7	20.0 18.8
11 Tu	13.3 17.5	7.7 11.9	2.9 7.4	-2.0 2.5	.7 2.3	10.0 10.6	18.0 18.2	24.2 23.9	28.5 28.3	30.1 30.2	27.8 27.7	23.1 22.3
12 W	16.5 20.3	11.0 14.7	5.8 9.6	1.0 5.2	-.8 1.3	5.9 4.8	14.8 13.5	21.4 19.9	26.6 24.7	29.8 28.2	29.4 28.6	25.6 25.2
13 Th	19.6 22.7	13.9 17.1	8.7 11.9	4.1 7.5	.5 3.2	2.9 1.9	11.5 8.0	19.0 15.8	24.3 21.1	28.3 25.0	29.8 27.3	27.5 26.3
14 F	22.5 24.9	17.1 19.5	11.8 14.1	7.2 9.5	3.4 5.6	2.2 2.2	7.9 3.6	16.2 10.5	22.1 17.2	26.2 21.6	28.8 24.6	28.4 25.7
15 Sa	24.0 26.2	20.2 22.1	15.4 16.8	10.6 11.9	6.9 7.9	4.3 4.3	5.7 2.4	12.3 5.5	19.2 11.8	23.8 17.4	26.8 21.1	27.9 23.4
16 Su	23.9 26.0	22.2 24.0	19.1 19.9	15.0 15.2	10.9 10.8	8.0 7.3	6.8 4.1	9.4 3.3	15.0 6.4	20.3 11.6	23.9 16.3	25.9 19.6
17 M	21.8 24.0	22.5 24.0	21.4 22.3	19.4 18.9	16.1 14.9	12.6 11.1	10.3 7.7	9.8 4.7	11.8 4.0	15.5 6.1	19.6 10.2	22.7 14.4
18 Tu	17.9 20.8	20.5 22.2	21.9 22.8	21.8 21.7	20.8 19.1	18.1 15.6	15.0 12.1	12.8 8.5	11.8 5.4	12.1 3.9	14.5 4.8	18.0 8.1
19 W	12.5 16.3	16.5 19.3	20.0 21.4	22.2 22.8	23.2 22.3	22.7 20.0	20.0 16.6	16.9 13.0	14.3 9.1	12.1 5.6	11.0 3.1	12.8 3.0
20 Th	6.4 11.3	11.7 15.6	16.4 19.1	20.6 22.0	23.4 23.9	24.9 23.6	24.1 21.0	21.1 17.3	17.5 13.2	14.2 9.0	10.9 5.1	9.2 1.7
21 F	1.4 7.4	6.0 11.0	12.3 16.3	17.7 20.4	22.1 23.9	25.2 25.7	26.3 24.9	24.5 21.5	20.7 17.2	16.6 12.6	12.6 8.2	8.8 3.9
22 Sa	.0 6.4	.8 6.4	7.4 12.1	14.4 18.1	20.0 22.8	24.2 26.2	26.9 27.6	26.7 25.6	23.8 21.2	19.1 16.2	14.4 11.3	10.2 6.7
23 Su	2.1 7.6	-1.5 4.1	2.1 6.7	10.2 14.3	17.4 20.5	22.6 25.4	26.5 28.5	28.2 28.9	26.3 25.5	22.1 20.3	16.7 14.8	11.8 9.5
24 M	4.9 9.3	-1 5.0	-1.6 2.5	5.2 8.4	13.7 16.8	20.6 22.8	25.4 27.5	28.6 30.2	28.5 29.2	25.2 24.5	20.0 18.8	14.2 13.0
25 Tu	7.6 11.9	2.7 7.1	-1.9 2.4	.4 2.2	9.4 11.0	17.3 19.0	23.7 24.7	27.9 29.0	29.9 30.9	27.9 28.3	23.4 22.9	17.7 16.9
26 W	11.0 15.2	5.5 9.6	.6 4.8	-2.0 .2	4.7 3.6	13.9 13.7	20.9 20.8	26.6 26.2	30.0 29.9	30.0 30.5	26.4 26.5	21.2 20.9
27 Th	14.8 18.4	8.9 12.7	3.6 7.4	-.9 2.4	.3 -.7	10.0 6.1	18.1 15.8	24.2 22.4	29.0 27.1	31.2 30.0	29.0 29.1	24.2 24.5
28 F	18.6 21.5	12.7 15.5	7.1 10.1	2.2 5.2	-.7 .4	4.8 -.1	15.0 8.4	21.7 17.3	27.1 23.4	30.7 27.3	31.0 29.3	27.1 27.2

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1985

Lat. 61° 14' N Long. 149° 53' W

MARCH

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	22.5	16.7	11.1	5.9	1.9	1.7	9.6	18.6	24.5	28.8	31.2	29.7
Sa	24.9	18.8	13.0	8.1	3.5	-1.5	1.4	9.7	17.8	23.4	26.6	27.8
2	25.5	21.2	15.7	10.7	6.1	3.3	5.2	13.1	20.5	25.7	29.0	30.2
Su	27.8	23.0	16.9	11.5	7.1	2.8	.0	2.7	9.8	17.2	22.1	25.0
3	25.9	24.4	20.8	16.2	11.6	7.7	6.0	8.4	14.4	20.5	25.0	27.7
M	28.3	26.1	21.9	16.2	11.5	7.3	3.4	1.2	3.1	8.7	15.1	19.8
4	22.9	24.4	24.1	21.7	18.0	13.8	10.4	8.9	9.9	13.8	18.8	22.8
Tu	25.4	26.3	25.1	21.8	17.0	12.8	8.6	4.8	2.4	2.8	6.6	12.2
5	17.2	21.1	23.5	24.6	23.6	20.5	16.4	13.1	10.7	9.8	11.7	15.9
W	20.1	23.2	25.0	25.1	22.8	18.7	14.6	10.3	6.3	3.1	1.9	3.8
6	9.5	15.5	20.1	23.5	25.9	25.7	22.8	18.5	14.7	11.0	8.6	8.9
Th	12.9	18.0	22.0	24.9	26.0	24.3	20.6	16.2	11.6	7.2	3.4	.4
7	1.5	8.3	15.2	20.3	24.4	27.5	27.4	24.0	19.2	14.7	10.1	6.7
F	6.1	11.2	17.3	22.3	25.8	27.5	25.7	21.8	17.0	12.1	7.4	3.1
8	-1.4	.8	9.1	16.5	21.6	25.9	28.9	28.0	23.8	18.4	13.3	8.7
Sa	4.3	4.3	11.3	18.2	23.6	27.3	28.8	26.4	21.9	16.8	11.5	6.9
9	2.0	-2.5	2.4	11.6	18.8	23.6	27.8	29.5	27.3	22.2	16.4	11.3
Su	6.8	1.9	4.4	12.8	19.9	25.4	29.0	29.6	26.2	21.1	15.6	10.1
10	5.8	.2	-1.7	6.1	15.1	21.7	26.2	29.4	29.2	25.5	19.8	13.9
M	9.2	4.3	.5	6.4	15.2	22.0	27.2	30.3	29.4	25.0	19.4	13.9
11	8.4	3.9	-1.1	1.5	10.8	18.7	24.6	28.7	30.1	27.8	23.0	17.1
Tu	11.4	7.0	1.6	1.2	9.6	17.7	23.9	28.7	30.6	28.3	23.0	17.3
12	11.7	6.4	1.8	-.2	6.8	15.5	22.2	27.4	30.3	29.5	25.5	19.9
W	14.2	9.0	4.3	.0	4.0	13.1	20.0	25.5	29.4	29.8	26.2	20.5
13	14.9	9.4	4.5	.8	3.5	12.6	19.8	25.3	29.4	30.4	27.5	22.3
Th	16.6	11.3	6.5	1.7	.5	8.0	16.3	22.0	26.6	29.2	28.0	23.6
14	17.8	12.3	7.3	3.1	2.2	9.1	17.8	23.3	27.7	30.2	28.9	24.4
F	18.6	13.1	8.4	3.9	.2	3.2	12.0	18.9	23.6	27.0	28.0	25.6
15	20.8	15.2	10.2	6.1	3.3	6.0	14.6	21.5	25.7	28.8	29.2	26.1
Sa	20.8	15.0	10.0	5.9	1.9	.7	6.7	15.0	20.6	24.2	26.5	26.2
16	23.2	18.5	13.4	9.1	6.1	5.4	10.7	18.3	23.5	26.7	28.2	26.9
Su	22.9	17.5	12.2	7.8	4.3	1.2	2.6	9.4	16.4	21.0	23.8	25.2
17	24.3	21.4	17.4	12.9	9.4	7.5	8.7	14.1	19.7	23.6	25.9	26.2
M	24.2	20.3	15.4	10.8	7.1	4.0	2.0	4.6	10.5	16.2	20.0	22.4
18	23.6	23.0	20.7	17.6	13.9	11.1	9.9	11.5	15.2	19.0	22.2	23.8
Tu	23.7	22.0	18.9	14.9	11.0	7.8	4.8	3.5	5.6	9.9	14.6	18.0
19	20.7	22.5	22.5	21.3	19.0	15.7	13.3	12.1	12.6	14.2	17.0	19.8
W	21.5	21.9	21.2	18.9	15.8	12.3	9.2	6.1	4.6	5.3	8.2	12.3
20	16.2	19.6	22.2	23.1	22.8	20.8	17.6	14.9	13.0	11.7	12.0	14.7
Th	17.8	20.0	21.5	21.7	20.2	17.3	13.9	10.5	7.1	4.7	3.9	6.1
21	10.7	15.5	19.6	22.8	24.4	24.3	22.0	18.5	15.1	12.1	9.5	9.6
F	13.1	17.0	20.2	22.6	23.4	21.9	18.7	15.0	11.0	7.2	3.8	2.2
22	4.9	10.7	16.3	20.9	24.3	26.1	25.3	22.1	17.9	13.8	9.9	6.9
Sa	7.9	13.0	17.9	21.9	24.7	25.5	23.3	19.4	15.0	10.6	6.3	2.3
23	.8	5.3	12.5	18.5	23.1	26.3	27.4	25.2	21.0	16.0	11.5	7.2
Su	4.4	7.5	14.3	19.9	24.4	27.2	27.3	23.9	19.2	14.1	9.4	4.8
24	.6	.6	7.7	15.5	21.5	25.7	28.4	27.9	24.2	18.9	13.5	8.9
M	4.3	2.4	8.5	16.5	22.4	27.0	29.4	28.2	23.7	18.3	12.7	7.8
25	3.0	-.8	2.5	11.5	19.0	24.6	28.4	29.8	27.4	22.5	16.5	11.1
Tu	6.4	1.4	1.7	10.7	18.8	24.7	29.0	30.8	28.1	22.9	16.9	11.2
26	6.0	1.2	-.9	6.3	15.7	22.4	27.6	30.7	30.2	26.0	20.4	14.2
W	8.9	3.8	-1.1	2.6	13.2	20.7	26.4	30.4	31.1	27.2	21.6	15.4
27	9.6	4.3	-.2	1.2	11.4	19.5	25.5	30.2	32.0	29.2	24.0	18.0
Th	12.0	6.7	1.2	-2.5	4.9	15.4	22.3	27.6	31.0	30.3	25.7	19.9
28	13.7	7.9	2.9	-.3	5.4	16.2	22.8	28.2	32.0	31.8	27.3	21.4
F	15.4	9.8	4.5	-1.2	-2.0	7.7	17.2	23.6	28.3	30.8	28.8	24.0
29	18.0	12.1	6.5	2.2	1.7	10.4	19.8	25.4	30.1	32.6	30.4	24.8
Sa	18.7	12.9	7.6	2.4	-2.5	-.1	10.0	18.5	24.4	28.2	29.7	27.2
30	22.3	16.5	10.9	5.9	2.8	5.1	14.4	22.0	27.1	30.7	31.6	28.1
Su	22.4	16.2	10.9	5.9	1.1	-2.1	2.3	11.3	19.1	24.2	27.4	28.1
31	25.8	21.1	15.8	10.6	6.5	4.8	8.5	16.3	22.5	27.1	29.7	29.5
M	25.9	20.5	14.7	9.9	5.3	1.1	-.5	3.9	11.5	18.5	22.9	25.8

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1985
 Lat. 61° 14' N Long. 149° 53' W

27

APRIL

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 Tu	26.6 27.0	24.9 24.4	20.9 19.7	16.3 14.6	11.6 10.3	8.3 5.9	7.5 2.5	10.5 1.4	15.9 4.4	21.4 10.4	25.3 16.6	27.3 20.9
2 W	24.0 24.6	25.5 25.1	24.9 23.8	21.9 20.2	17.9 15.9	13.6 11.8	10.9 7.6	9.6 4.4	10.4 2.6	13.9 3.9	18.6 8.3	22.4 14.1
3 Th	18.9 19.5	22.6 22.4	25.0 24.3	25.6 24.3	23.7 21.7	20.1 18.0	15.9 13.8	12.9 9.6	10.1 5.9	8.9 3.1	10.8 2.6	15.2 5.9
4 F	12.3 12.4	17.8 17.7	22.0 21.6	25.4 24.6	27.0 25.5	25.6 23.4	21.8 19.9	17.4 15.4	13.6 10.9	9.4 6.7	6.5 3.0	7.4 .9
5 Sa	4.6 4.8	12.0 11.4	18.0 17.5	22.5 22.2	26.4 25.7	28.3 26.9	26.8 24.8	22.4 20.9	17.5 16.0	12.8 11.1	7.9 6.7	3.9 2.4
6 Su	-2 1.5	5.3 4.1	13.4 12.1	19.4 18.7	23.9 23.7	27.8 27.2	29.1 28.0	26.5 25.2	21.4 20.7	16.1 15.5	11.1 10.3	6.0 6.1
7 M	1.3 3.8	.4 .0	8.1 5.6	16.1 14.2	21.8 20.8	26.0 25.6	29.1 28.7	28.7 28.3	25.0 24.6	19.3 19.6	13.7 14.1	9.0 9.0
8 Tu	4.9 6.7	.6 1.2	3.3 .4	12.2 8.6	19.4 16.8	24.6 23.0	28.2 27.5	29.6 29.6	27.3 27.8	22.4 23.2	16.5 17.8	11.1 12.2
9 W	7.3 8.6	3.3 4.1	1.5 -.5	8.1 3.0	16.5 12.1	22.8 19.3	27.4 25.1	29.9 28.9	28.9 29.6	24.9 26.4	19.4 21.1	13.7 15.7
10 Th	10.2 10.9	5.6 6.0	2.3 1.3	4.8 -.3	13.4 7.0	20.3 15.4	25.8 21.6	29.6 26.7	30.2 29.5	27.1 28.5	21.9 24.4	16.2 18.8
11 F	13.4 13.1	8.2 8.1	4.1 3.4	3.3 -.5	9.9 2.4	18.1 11.4	23.5 18.3	28.2 23.7	30.4 27.7	28.8 29.0	24.1 26.7	18.4 21.8
12 Sa	16.3 14.9	11.2 10.0	6.6 5.5	3.8 1.1	6.7 -.2	15.3 6.5	21.7 15.1	26.1 20.8	29.4 25.1	29.6 27.9	26.0 27.6	20.6 24.4
13 Su	19.2 16.9	14.0 11.7	9.4 7.2	5.9 3.3	5.2 -.1	11.4 2.1	19.5 10.5	24.1 17.8	27.5 22.5	29.1 25.6	27.2 27.2	22.6 25.8
14 M	22.0 19.3	17.1 14.0	12.2 9.3	8.5 5.4	6.3 2.0	8.3 .4	15.6 5.3	21.6 13.1	25.2 19.1	27.5 22.9	27.3 25.2	24.2 25.9
15 Tu	24.1 21.4	20.3 17.0	15.9 12.3	11.6 8.1	8.8 4.8	7.9 2.0	11.6 2.2	17.7 7.6	21.9 13.9	24.7 19.1	26.0 22.2	24.8 24.2
16 W	24.6 22.5	22.9 19.8	19.7 16.1	15.9 12.1	12.2 8.4	10.1 5.5	10.0 3.0	13.5 4.0	17.4 8.3	20.6 13.4	23.0 17.8	23.8 20.9
17 Th	23.1 21.9	23.8 21.4	22.6 19.6	20.2 16.6	16.8 13.1	13.6 9.7	11.5 6.7	11.3 4.4	13.2 4.9	15.5 7.6	18.5 11.9	20.8 16.3
18 F	19.8 19.2	22.5 21.1	23.8 21.7	23.3 20.6	21.3 18.1	18.0 14.6	14.8 11.3	12.2 7.8	11.1 5.2	11.2 4.6	13.1 6.3	16.4 10.6
19 Sa	15.5 15.2	19.7 18.9	22.9 21.9	24.6 23.2	24.5 22.4	22.3 19.7	18.7 16.0	14.9 12.2	11.7 8.3	9.3 5.1	8.4 3.5	11.0 5.1
20 Su	10.4 9.8	16.1 15.4	20.8 20.1	24.2 23.7	26.1 25.2	25.6 24.4	22.6 21.0	18.3 16.7	13.9 12.3	10.0 8.0	6.6 4.3	5.8 2.3
21 M	5.0 3.8	11.8 10.0	18.1 16.8	22.9 22.1	26.1 25.9	27.7 27.4	26.1 25.8	21.9 21.6	16.8 16.6	11.9 11.7	7.6 7.2	3.7 3.1
22 Tu	1.6 .9	6.5 2.7	14.7 11.4	20.8 18.7	25.5 24.2	28.4 28.0	28.8 29.1	25.6 26.4	20.4 21.5	14.6 15.9	9.7 10.7	5.1 6.0
23 W	1.9 2.6	1.9 -1.5	9.7 3.1	18.1 13.3	23.8 20.4	28.2 26.0	30.4 29.5	29.1 29.9	24.4 26.3	18.5 20.9	12.5 14.9	7.7 9.7
24 Th	4.8 5.8	1.1 .1	3.8 -3.0	13.8 4.8	21.2 15.1	26.6 21.9	30.6 27.3	31.6 30.5	28.3 29.9	22.7 25.6	16.4 19.9	10.7 13.9
25 F	8.6 9.1	3.8 3.8	1.2 -2.2	7.3 -2.9	17.8 7.1	23.8 16.6	29.1 23.1	32.4 28.1	31.6 30.8	26.6 29.1	20.7 24.6	14.5 18.6
26 Sa	12.8 12.7	7.4 7.3	3.1 1.9	2.6 -3.7	11.5 -1.3	20.8 9.4	26.1 17.9	30.9 24.1	33.0 28.5	30.3 30.4	24.5 28.0	18.5 23.2
27 Su	17.3 16.3	11.7 10.9	6.6 5.6	3.1 .3	5.2 -3.7	15.2 1.2	22.6 11.2	27.7 19.1	31.6 24.6	32.3 28.5	28.3 29.5	22.3 26.8
28 M	21.8 20.3	16.3 14.5	10.8 9.4	6.4 4.3	4.2 -.4	8.2 -2.4	17.2 3.6	23.5 12.5	28.2 19.8	31.0 24.5	30.5 27.8	26.1 28.4
29 Tu	25.8 24.3	20.9 18.8	15.7 13.6	10.6 8.7	7.1 4.0	6.0 .2	10.3 -.3	17.3 5.1	23.1 12.9	27.1 19.5	29.1 23.7	28.1 26.8
30 W	27.4 26.0	25.2 23.2	20.8 18.4	16.0 13.7	11.4 9.1	8.6 4.9	7.7 1.7	10.5 1.4	15.9 5.6	21.3 12.4	24.8 18.3	26.5 22.5

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (M.L.L.W. chart datum).

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1985

Lat. 61° 14' N Long. 149° 53' W

MAY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	25.7	26.8	25.2	21.6	17.1	12.9	10.2	8.3	9.2	13.4	18.4	21.9
Th	24.1	24.7	22.9	19.0	14.9	10.4	6.5	3.4	2.5	5.3	11.1	16.9
2	21.4	24.9	26.7	26.0	22.9	18.4	14.4	11.1	7.7	7.0	10.2	15.3
F	19.5	22.5	24.2	23.5	20.4	16.6	12.2	8.2	4.7	2.9	4.5	9.9
3	16.1	20.9	24.7	27.1	26.9	24.0	19.3	15.0	10.8	6.2	4.3	7.2
Sa	13.3	18.2	22.0	24.6	24.6	22.0	18.2	13.6	9.3	5.4	3.0	3.7
4	9.8	16.4	21.3	25.2	27.9	27.6	24.2	19.2	14.5	9.5	4.5	1.9
Su	5.7	12.8	18.3	22.6	25.5	25.8	23.2	19.0	14.1	9.5	5.7	2.7
5	4.0	11.3	17.8	22.6	26.3	28.5	27.3	23.2	17.8	12.8	7.8	2.6
M	.3	6.1	13.8	19.5	23.8	26.7	26.5	23.5	18.8	13.7	9.0	5.4
6	2.7	6.2	14.1	20.1	24.5	27.7	28.6	26.0	21.1	15.5	10.5	5.9
Tu	.7	.3	8.2	15.8	21.4	25.4	27.7	26.6	22.7	17.7	12.5	8.1
7	4.8	3.7	9.9	17.4	22.8	26.8	28.8	27.7	23.8	18.4	12.9	8.2
W	3.7	-.8	2.4	11.1	18.1	23.5	27.0	28.2	25.9	21.3	16.1	10.9
8	6.9	4.3	6.4	14.2	20.5	25.6	28.7	29.0	26.0	21.0	15.6	10.3
Th	5.8	1.3	-.7	5.8	14.1	20.5	25.4	28.2	28.0	24.4	19.3	14.2
9	9.2	5.7	4.9	10.6	18.1	23.4	27.8	29.7	28.0	23.5	18.1	12.9
F	7.9	3.4	-.6	1.4	9.7	16.9	22.8	26.9	28.6	26.9	22.4	17.2
10	12.2	7.7	5.1	7.3	15.1	21.2	25.8	29.1	29.3	25.9	20.6	15.2
Sa	10.3	5.5	1.1	-.8	5.1	13.3	19.5	24.5	27.8	28.1	25.1	20.2
11	15.1	10.3	6.6	5.7	11.3	18.8	23.5	27.4	29.1	27.4	22.9	17.5
Su	12.4	7.7	3.3	-.4	1.2	9.2	16.4	21.7	25.7	27.8	26.8	22.9
12	17.9	13.0	8.9	6.2	7.9	15.3	21.2	25.0	27.8	27.8	24.7	19.8
M	14.5	9.8	5.5	1.6	-.4	4.6	12.6	18.8	23.2	26.2	27.1	25.0
13	20.8	16.0	11.4	8.2	6.9	11.1	18.1	22.3	25.4	27.0	25.6	21.8
Tu	17.0	12.1	7.7	3.9	.7	1.2	7.9	14.9	20.3	23.8	26.0	26.0
14	23.4	19.2	14.7	10.7	8.2	6.4	13.7	19.0	22.3	24.8	25.4	23.3
W	19.5	15.0	10.6	6.5	3.3	.9	3.6	10.1	16.0	20.8	23.7	25.4
15	25.0	22.2	18.4	14.1	10.7	8.7	9.9	14.6	18.3	21.4	23.4	23.7
Th	21.6	18.2	14.1	10.1	6.5	3.5	2.0	5.5	10.9	16.3	20.6	23.4
16	24.9	24.4	21.8	18.2	14.2	11.1	9.2	10.3	13.6	16.8	19.9	21.9
F	22.6	21.0	18.1	14.4	10.6	7.3	4.2	3.4	6.4	10.8	16.1	20.2
17	23.2	24.8	24.4	22.1	18.4	14.5	11.2	9.0	9.2	11.3	15.0	18.4
Sa	21.1	22.4	21.5	19.0	15.5	11.7	8.3	5.1	4.2	6.2	10.6	16.0
18	20.4	23.7	25.3	25.1	22.6	18.5	14.4	10.6	7.8	6.9	8.9	13.5
Su	17.8	21.3	23.2	22.8	20.6	16.9	13.0	9.1	5.7	4.2	5.8	10.8
19	16.7	21.3	24.7	26.4	26.0	22.8	18.2	13.5	9.3	5.8	4.1	6.8
M	12.7	18.0	22.3	24.7	24.6	22.2	18.2	13.8	9.5	5.8	3.8	5.7
20	11.8	18.3	23.0	26.4	27.8	26.7	22.5	17.2	12.0	7.6	3.4	1.5
Tu	5.4	13.0	18.9	23.7	26.2	26.3	23.5	19.1	14.1	9.5	5.5	3.4
21	6.3	13.9	20.4	25.0	28.3	29.2	26.8	21.6	15.7	10.4	5.8	1.2
W	-.6	5.1	13.8	20.1	25.1	27.7	27.6	24.3	19.3	13.9	9.2	5.0
22	3.3	7.8	16.7	22.6	27.2	30.2	30.1	26.2	20.4	14.2	9.0	4.2
Th	-.8	-.2	5.8	14.8	21.2	26.3	28.9	28.3	24.5	19.0	13.6	8.7
23	4.5	3.5	10.2	19.3	24.6	29.3	31.7	30.2	25.1	19.0	12.9	7.9
F	2.8	-.2	-.2	7.1	15.8	22.3	27.2	29.6	28.3	24.1	18.4	13.0
24	8.0	4.1	4.4	13.1	21.4	26.4	30.9	32.4	29.4	23.6	17.5	11.8
Sa	6.7	1.5	-.4	-.1	8.7	16.9	23.3	27.9	29.8	27.8	23.3	17.6
25	12.2	7.3	3.9	6.0	15.7	22.8	27.8	31.7	32.1	27.9	22.1	16.2
Su	10.8	5.5	.1	-.4	.3	10.4	18.2	24.2	28.4	29.6	27.1	22.2
26	16.7	11.3	6.8	4.1	8.0	17.4	23.6	28.5	31.5	30.9	26.2	20.5
M	14.8	9.5	4.2	-.1	-.3	2.7	12.1	19.5	24.8	28.6	29.1	26.1
27	21.1	15.8	10.5	6.7	4.7	9.7	17.9	23.8	28.1	30.4	29.1	24.6
Tu	18.9	13.6	8.2	3.3	-.1	-.2	5.0	13.7	20.5	25.2	28.5	28.5
28	25.2	20.3	15.0	10.2	6.9	5.6	10.5	17.5	23.1	26.7	28.6	27.3
W	23.2	17.7	12.6	7.4	3.0	-.9	.0	6.8	14.9	20.9	25.2	28.1
29	27.9	24.6	19.9	14.7	10.5	7.3	6.1	10.0	16.1	21.3	24.7	26.5
Th	25.7	22.1	17.2	12.3	7.5	3.5	.5	2.0	8.1	15.4	20.8	24.9
30	27.6	27.4	24.4	20.0	15.0	11.1	7.7	5.9	8.6	14.0	19.0	22.4
F	24.6	24.5	21.7	17.4	12.9	8.4	4.6	2.2	3.6	8.8	15.3	20.5
31	24.5	27.1	27.2	24.5	20.2	15.4	11.5	7.6	5.0	6.6	11.5	16.8
Sa	20.6	23.2	23.9	21.9	18.4	14.1	9.7	6.1	3.8	4.7	9.0	15.2

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1985

29

Lat. 61° 14' N Long. 149° 53' W

JUNE

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 Su	20.4 15.3	24.2 19.6	26.9 22.6	27.1 23.9	24.6 22.8	20.3 19.7	15.5 15.4	11.4 11.1	6.9 7.3	3.7 5.1	4.5 5.4	9.5 9.3
2 M	15.7 8.7	20.6 14.9	24.4 19.5	26.8 22.8	27.0 24.6	24.4 23.9	19.9 20.8	14.9 16.4	10.4 11.9	5.7 8.1	2.2 5.9	2.7 5.8
3 Tu	10.3 2.1	16.9 9.2	21.4 15.6	25.0 20.3	27.1 23.6	26.6 25.6	23.5 24.7	18.6 21.2	13.6 16.6	8.9 12.0	4.3 8.3	.7 6.2
4 W	6.6 -.5	12.4 3.0	18.5 10.8	22.8 17.0	26.0 21.7	27.3 24.9	25.8 26.5	21.9 24.9	16.7 20.8	11.7 16.1	7.1 11.4	2.8 8.0
5 Th	6.2 1.1	8.4 -.6	15.2 5.3	20.5 13.0	24.7 19.0	27.2 23.5	27.2 26.3	24.3 26.9	19.7 24.2	14.5 19.6	9.6 14.8	5.3 10.3
6 F	7.4 3.5	6.6 -.4	11.3 .7	17.9 8.4	22.7 15.5	26.6 21.3	28.0 25.3	26.5 27.4	22.4 26.5	17.4 22.7	12.3 17.9	7.6 13.1
7 Sa	8.9 5.6	6.6 1.6	8.0 -1.0	14.6 3.5	20.4 11.5	24.9 18.1	28.0 23.3	28.1 26.7	25.1 27.6	20.2 25.3	15.1 20.8	10.2 16.0
8 Su	11.2 8.1	7.6 3.8	6.3 -2	10.6 .0	17.6 7.0	22.6 14.5	26.7 20.5	28.5 25.0	27.3 27.6	23.2 27.0	18.0 23.5	13.0 18.7
9 M	13.9 10.8	9.5 6.1	6.6 2.0	7.4 -.9	13.9 2.7	19.9 10.5	24.3 17.2	27.5 22.5	28.1 26.1	25.5 27.6	20.8 25.7	15.7 21.6
10 Tu	16.7 13.4	11.9 8.6	8.2 4.2	6.3 .5	9.8 .0	16.8 6.3	21.5 13.5	25.3 19.6	27.4 23.9	26.7 26.6	23.2 26.9	18.4 24.1
11 W	19.7 16.0	14.9 11.2	10.4 6.6	7.4 2.7	6.9 -.2	12.6 2.4	18.6 9.5	22.4 16.0	25.6 21.4	26.6 24.8	24.8 26.7	20.8 25.8
12 Th	22.5 18.6	18.0 14.0	13.3 9.4	9.4 5.2	6.9 1.7	8.3 .4	14.7 5.4	19.3 12.1	22.7 18.0	25.1 22.6	25.4 25.4	22.8 26.4
13 F	24.7 21.3	21.1 17.1	16.6 12.6	12.1 8.3	8.8 4.6	6.7 1.5	9.6 2.0	15.2 7.9	19.2 13.9	22.4 19.5	24.4 23.4	24.2 25.8
14 Sa	26.0 23.4	23.9 20.5	20.0 16.5	15.4 12.2	11.3 8.3	8.1 4.8	6.5 2.0	9.8 3.9	14.5 9.5	18.5 15.3	21.7 20.5	23.7 24.0
15 Su	26.1 23.3	25.8 23.1	23.5 20.6	19.3 16.9	14.6 12.8	10.7 9.0	7.3 5.5	5.9 3.2	8.5 5.4	12.9 10.4	17.6 16.3	20.9 21.3
16 M	24.7 20.4	26.4 23.3	26.0 23.5	23.4 21.6	18.7 18.2	13.9 14.1	9.9 10.2	6.3 6.5	4.6 4.4	6.4 6.1	11.2 11.0	16.5 17.3
17 Tu	22.0 15.7	25.4 20.3	27.0 23.6	26.5 24.4	23.4 23.1	18.3 19.9	13.3 15.7	8.9 11.4	5.1 7.6	2.7 5.2	4.0 6.4	9.6 11.6
18 W	18.3 8.3	22.9 15.2	26.3 20.4	28.0 24.2	27.2 25.5	23.4 24.8	17.8 21.5	12.5 17.0	7.9 12.3	3.7 8.3	.7 5.5	1.9 6.5
19 Th	12.4 .3	19.3 7.7	23.8 15.1	27.5 20.9	29.0 25.0	27.7 26.8	23.1 26.2	17.3 22.7	11.7 17.7	7.1 12.9	2.5 8.5	-1.0 5.4
20 F	6.6 -2.3	13.4 -.7	20.5 7.7	24.9 15.4	28.8 21.6	30.1 25.8	28.0 27.9	22.7 27.0	16.7 23.2	11.1 17.8	6.4 12.9	1.6 8.2
21 Sa	5.3 .9	6.8 -3.4	14.6 -.8	21.5 8.4	26.2 16.2	30.1 22.6	30.8 26.7	27.7 28.7	22.2 27.2	16.1 22.9	10.7 17.5	5.8 12.4
22 Su	7.7 5.2	4.9 .2	7.2 -4.3	15.9 .1	22.3 9.6	27.4 17.5	31.0 23.5	31.1 27.6	27.1 29.0	21.4 26.9	15.5 22.2	10.2 16.8
23 M	11.5 9.4	7.1 4.4	4.4 -.9	8.0 -4.5	17.1 2.0	23.2 11.4	28.3 19.1	31.3 24.6	30.7 28.4	26.2 29.0	20.5 26.1	14.8 21.2
24 Tu	15.8 13.8	10.5 8.3	6.5 3.5	3.9 -2.1	9.1 -3.4	17.8 4.6	23.8 13.6	28.5 20.7	31.1 25.7	29.8 29.0	25.1 28.6	19.3 25.1
25 W	20.1 17.9	14.6 12.5	9.7 7.0	5.7 2.4	3.8 -2.6	10.2 -1.1	18.2 7.5	23.9 16.0	28.1 22.1	30.2 26.7	28.4 29.3	23.6 28.1
26 Th	24.0 22.0	18.9 16.5	13.4 11.2	9.1 6.0	4.9 1.5	4.3 -1.8	10.9 1.9	18.1 10.3	23.4 17.9	27.0 23.2	28.8 27.4	26.8 29.1
27 F	27.3 25.1	22.9 20.5	17.7 15.4	12.5 10.3	8.5 5.6	4.5 1.6	4.8 .3	10.9 5.1	17.5 12.7	22.2 19.3	25.6 24.1	27.0 27.6
28 Sa	28.5 25.1	26.3 23.6	21.8 19.6	16.7 15.0	11.9 10.2	8.0 6.0	4.4 2.8	5.1 3.0	10.4 7.8	16.3 14.4	20.8 20.2	24.0 24.4
29 Su	27.2 22.3	27.6 23.6	25.2 22.6	20.9 19.5	16.0 15.5	11.5 11.1	7.5 7.2	4.3 4.8	4.9 5.5	9.3 9.6	14.7 15.3	19.3 20.5
30 M	24.1 18.0	26.5 21.1	26.7 22.7	24.2 22.5	20.1 20.3	15.4 16.7	11.0 12.5	7.1 9.0	3.9 6.9	4.1 7.4	7.9 10.6	13.4 15.7

Time meridian 135° W. 0 is midnight, 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1985
Lat. 61° 14' N Long. 149° 53' W

JULY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	20.6	23.7	25.8	25.8	23.4	19.4	14.7	10.4	6.4	3.3	3.0	6.6
Tu	12.5	17.2	20.6	22.6	23.3	21.6	18.1	14.0	10.5	8.3	8.4	10.9
2	16.2	20.5	23.6	25.5	25.2	22.7	18.6	13.9	9.5	5.4	2.3	1.8
W	6.0	12.4	17.3	20.9	23.4	24.6	22.8	19.1	15.0	11.3	8.9	8.5
3	11.4	16.9	20.8	24.0	25.6	24.9	21.9	17.6	12.8	8.4	4.3	1.2
Th	1.0	6.6	13.1	18.2	22.1	24.8	25.6	23.3	19.2	15.0	11.1	8.6
4	8.4	12.5	18.0	21.8	25.0	26.0	24.5	20.9	16.3	11.5	7.1	3.1
F	-1	1.3	8.2	14.6	20.0	23.7	26.2	26.0	22.8	18.4	14.0	10.1
5	7.8	8.8	14.3	19.5	23.5	26.2	26.4	23.9	19.6	14.8	10.0	5.7
Sa	1.7	-9	2.9	10.5	16.9	22.0	25.5	27.0	25.3	21.3	16.8	12.2
6	8.7	7.0	10.1	16.5	21.4	25.3	27.3	26.5	22.9	18.0	13.1	8.4
Su	4.2	.1	-7	5.6	13.2	19.4	24.0	26.9	27.0	24.0	19.4	14.6
7	10.3	7.2	6.9	12.4	18.7	23.4	26.8	27.9	25.9	21.4	16.3	11.3
M	6.7	2.6	-1.2	1.1	8.8	16.1	21.8	25.7	27.7	26.1	22.2	17.3
8	12.4	8.5	5.9	8.1	15.0	20.6	25.1	27.7	27.8	24.6	19.7	14.5
Tu	9.4	4.9	.7	-1.2	4.2	12.1	18.9	23.7	27.0	27.6	24.8	20.3
9	15.2	10.4	7.0	5.5	10.5	17.3	22.2	26.1	27.9	26.7	22.7	17.6
W	12.4	7.3	3.1	-7	.7	7.9	15.2	21.4	25.3	27.7	26.7	23.1
10	18.3	13.1	8.9	5.6	6.3	13.2	18.9	23.4	26.5	27.4	25.0	20.4
Th	15.3	10.2	5.4	1.3	-8	4.2	11.6	18.2	23.4	26.6	27.6	25.4
11	21.2	16.2	11.3	7.5	4.7	8.0	15.2	20.1	24.0	26.5	26.4	22.9
F	18.1	13.1	8.2	3.8	.1	.9	8.2	15.0	20.9	25.1	27.5	26.9
12	23.8	19.1	14.1	9.7	6.1	4.4	9.7	16.2	20.8	24.2	26.1	25.0
Sa	21.0	16.2	11.3	6.8	2.8	.2	4.1	11.8	18.0	23.1	26.5	27.7
13	26.0	22.2	17.1	12.2	8.3	4.7	4.5	10.3	16.3	20.9	24.0	25.5
Su	23.7	19.8	15.1	10.5	6.4	2.7	1.7	7.3	14.5	20.3	24.6	27.3
14	27.5	25.1	20.8	15.4	10.8	7.0	3.6	4.3	9.6	15.7	20.4	23.4
M	24.8	23.0	19.5	15.1	10.8	7.0	3.7	4.0	9.6	16.2	21.7	25.4
15	27.6	27.2	24.5	19.7	14.3	9.8	6.0	2.8	3.4	8.1	14.5	19.2
Tu	22.5	24.1	22.9	20.2	16.3	12.2	8.4	5.5	6.0	10.7	16.9	22.2
16	25.5	27.5	27.1	24.4	19.3	13.9	9.4	5.4	2.2	2.0	6.2	12.7
W	17.8	21.7	23.8	23.6	21.8	18.3	14.2	10.2	7.3	7.1	10.8	16.9
17	22.0	25.3	27.5	27.3	24.6	19.4	14.1	9.3	5.1	1.4	.5	4.2
Th	10.8	16.5	21.2	24.0	24.9	23.8	20.4	15.9	11.8	8.4	7.2	10.4
18	16.4	21.5	25.2	27.9	27.9	25.1	19.9	14.5	9.5	5.1	.9	-8
F	2.3	9.3	15.8	21.3	24.6	26.4	25.5	21.9	17.0	12.7	8.5	6.9
19	9.6	15.9	21.3	25.6	28.6	28.8	25.7	20.4	14.8	9.7	5.0	.6
Sa	-2.0	.9	8.8	16.1	22.0	25.6	27.7	26.6	22.5	17.3	12.5	8.1
20	6.1	8.7	15.7	21.6	26.6	29.6	29.6	26.0	20.6	14.8	9.7	4.8
Su	.3	-3.3	.7	9.5	17.2	23.0	26.8	28.6	26.8	22.1	16.8	11.6
21	7.4	5.0	8.2	16.2	22.3	27.6	30.5	30.1	25.9	20.3	14.6	9.3
M	4.6	-6	-4.1	1.9	11.3	19.0	24.3	28.0	28.9	26.2	21.2	15.7
22	10.5	6.4	3.6	8.5	17.0	23.4	28.4	31.1	30.0	25.3	19.6	13.9
Tu	8.5	3.9	-2.0	-3.7	4.5	13.8	20.9	25.9	29.1	28.7	25.2	19.8
23	14.2	9.3	5.0	2.7	9.6	18.0	24.2	28.8	31.2	29.3	24.2	18.4
W	12.8	7.3	2.6	-3.2	-1.4	8.1	16.6	22.9	27.5	29.7	28.0	23.7
24	18.3	12.7	8.2	3.3	3.0	11.2	19.0	24.6	28.8	30.6	27.9	22.5
Th	16.7	11.2	6.0	.9	-2.9	2.4	11.9	19.4	24.9	28.9	29.7	26.8
25	21.9	16.4	11.2	6.8	2.1	4.2	12.7	19.6	24.5	28.3	29.2	26.0
F	20.5	14.9	9.5	4.6	.0	-5	7.0	15.5	21.8	26.5	29.5	28.8
26	25.1	19.9	14.5	9.8	5.3	1.9	6.0	13.8	19.8	24.1	27.2	27.1
Sa	23.8	18.5	13.3	8.2	3.8	.8	3.5	11.2	18.4	23.6	27.4	29.0
27	27.3	23.0	17.7	12.7	8.4	4.2	2.7	7.6	14.2	19.4	23.3	25.5
Su	25.0	21.8	17.1	12.3	7.8	4.2	3.3	7.6	14.4	20.3	24.6	27.3
28	27.7	25.4	20.9	15.9	11.3	7.3	3.8	3.8	8.3	14.0	18.6	22.0
M	23.7	23.2	20.7	16.8	12.5	8.7	6.1	6.5	10.7	16.1	21.0	24.5
29	26.2	26.1	23.5	19.2	14.6	10.5	6.7	3.9	4.3	8.1	13.0	17.4
Tu	20.6	22.2	22.2	20.7	17.7	13.8	10.5	8.6	9.1	12.2	16.5	20.7
30	23.5	24.8	24.6	22.2	18.4	14.2	10.1	6.5	4.0	4.1	7.1	11.6
W	16.1	19.4	21.6	22.4	21.9	19.3	15.7	12.6	10.7	10.3	12.2	15.8
31	19.8	22.2	23.9	23.8	21.7	18.2	14.2	10.1	6.4	3.7	3.2	5.5
Th	10.4	15.2	19.2	21.9	23.5	23.6	20.9	17.3	14.1	11.4	10.2	11.3

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (M.O.S. chart datum).

ANCHORAGE, ALASKA, 1985
Lat. 61° 14' N Long. 149° 53' W

31

AUGUST

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 F	15.1 4.4	19.0 10.0	21.7 15.3	23.7 19.9	23.7 23.0	21.8 25.2	18.3 24.9	14.2 21.9	9.9 18.0	6.0 14.3	3.0 10.8	1.8 9.1
2 Sa	10.4 .4	14.9 4.3	19.0 10.9	22.2 16.6	24.4 21.4	24.4 24.7	22.1 26.5	18.3 25.2	13.9 21.5	9.5 17.3	5.3 13.1	1.8 9.4
3 Su	7.7 .3	10.3 -1.2	15.8 5.8	20.1 13.0	23.7 18.8	25.7 23.4	25.2 26.4	22.1 26.9	17.7 24.4	13.0 20.0	8.5 15.4	4.3 11.1
4 M	7.5 2.9	6.7 -1.2	11.5 .8	17.5 8.6	22.2 15.8	25.6 21.4	27.1 25.5	25.5 27.6	21.5 26.5	16.6 22.7	11.6 17.8	7.1 12.9
5 Tu	8.9 5.6	5.7 1.0	7.0 -1.8	13.7 3.4	19.8 12.0	24.5 18.9	27.4 23.8	28.0 27.3	25.1 28.0	20.3 25.3	15.0 20.6	9.9 15.3
6 W	10.5 8.0	6.7 3.7	4.4 -1.9	8.8 -1.5	16.3 7.3	22.1 15.5	26.4 21.8	28.8 26.0	28.1 28.6	24.0 27.5	18.7 23.6	13.1 18.4
7 Th	12.9 11.1	8.5 6.0	4.6 1.6	4.4 -1.6	11.5 3.0	18.6 11.5	23.9 18.8	27.7 24.3	29.3 27.8	27.1 28.8	22.2 26.2	16.7 21.6
8 F	16.1 14.4	10.8 8.9	6.6 4.0	3.0 -1.1	5.9 .1	14.4 7.9	20.4 15.6	25.3 22.0	28.4 26.5	28.8 29.0	25.2 28.1	19.9 24.3
9 Sa	19.2 17.5	13.7 12.2	8.9 6.9	4.6 2.4	2.3 -1.5	8.5 4.0	16.6 12.9	21.9 19.3	26.1 24.7	28.5 28.3	27.3 29.2	22.9 26.5
10 Su	21.9 20.7	16.4 15.4	11.3 10.4	7.0 5.6	2.7 1.6	2.8 1.2	10.8 8.8	18.1 17.0	23.0 22.5	26.4 26.9	27.9 29.3	25.4 28.5
11 M	24.6 23.7	19.3 19.2	13.8 14.1	9.2 9.5	5.1 5.2	1.5 2.1	4.0 4.4	12.1 12.8	18.8 19.8	23.3 24.6	26.1 28.0	26.7 29.3
12 Tu	27.1 25.3	22.8 22.7	17.1 18.7	11.8 14.1	7.7 9.9	3.7 6.1	1.2 4.2	4.8 7.7	12.1 15.0	18.6 21.1	22.7 25.4	25.1 27.9
13 W	28.4 23.8	25.9 24.2	21.6 22.6	15.8 19.5	10.9 15.4	7.0 11.5	3.2 8.0	1.3 6.7	4.6 9.6	11.0 15.3	17.2 20.9	21.1 24.7
14 Th	26.9 19.1	27.4 22.5	25.3 23.8	21.2 23.5	15.8 21.3	11.1 17.7	7.1 13.7	3.4 10.4	1.5 8.6	3.5 9.9	9.0 14.3	14.9 19.4
15 F	23.1 12.3	25.7 17.5	26.8 21.8	25.5 24.1	21.9 25.1	16.8 23.6	12.2 20.1	7.9 15.8	4.0 12.1	1.3 9.2	2.0 9.0	6.5 12.3
16 Sa	17.3 3.9	21.6 10.6	25.1 16.9	26.9 21.9	26.4 25.0	23.1 26.9	18.3 25.6	13.4 21.7	8.8 17.0	4.4 12.6	1.0 8.6	.3 7.5
17 Su	10.0 -1.5	15.7 2.4	20.9 10.4	25.3 17.6	27.8 22.7	27.8 26.4	24.5 28.4	19.6 26.7	14.3 22.1	9.3 16.9	4.6 11.8	.7 7.6
18 M	5.6 .0	8.2 -2.9	15.2 2.8	21.3 11.9	26.3 19.2	29.0 24.1	29.0 27.9	25.3 29.1	20.1 26.5	14.5 21.3	9.3 15.8	4.7 10.5
19 Tu	6.4 4.3	3.6 -1.4	7.7 -3.0	15.9 5.2	22.5 14.5	27.6 21.4	30.4 26.0	29.7 29.3	25.4 29.1	19.8 25.4	14.1 19.8	8.7 14.0
20 W	9.1 7.7	4.6 3.1	2.1 -2.7	8.7 -1.8	17.3 9.0	23.9 17.6	28.8 23.7	31.3 28.0	29.6 30.1	24.6 28.3	18.7 23.6	13.0 17.8
21 Th	12.1 11.5	7.6 6.4	2.4 1.3	2.0 -2.6	10.7 3.4	18.9 13.2	25.2 20.7	29.7 26.1	31.5 29.8	28.6 30.0	23.1 26.7	17.2 21.4
22 F	15.6 15.3	10.4 9.7	5.7 4.8	.6 -1.1	3.7 .0	13.2 8.7	20.4 17.2	26.0 23.5	30.1 28.2	30.6 30.5	26.8 28.9	21.0 24.4
23 Sa	18.8 18.7	13.3 13.2	8.5 7.9	3.6 3.3	.4 .3	6.6 4.8	15.4 13.9	21.6 20.7	26.5 25.9	29.6 29.5	28.8 29.9	24.5 26.7
24 Su	21.5 21.9	16.0 16.4	11.0 11.3	6.6 6.6	1.9 3.0	2.0 3.1	9.8 10.1	17.3 18.0	22.4 23.4	26.4 27.3	28.2 29.3	26.4 28.1
25 M	23.9 24.0	18.4 19.8	13.3 14.9	8.9 10.3	4.7 6.5	1.5 4.4	4.6 7.4	12.3 14.5	18.4 20.6	22.6 24.8	25.7 27.5	26.3 27.9
26 Tu	25.5 24.3	21.0 22.2	15.7 18.6	11.1 14.4	7.3 10.5	3.6 7.7	2.5 7.3	7.0 11.2	13.7 16.9	18.6 21.5	22.1 24.8	24.3 26.2
27 W	25.6 22.7	23.0 22.9	18.7 21.4	14.0 18.9	10.0 15.2	6.5 12.0	3.6 9.9	3.9 10.3	8.1 13.2	13.6 17.1	17.7 20.8	20.8 23.4
28 Th	24.2 19.2	23.6 21.6	21.3 22.0	17.7 20.3	13.7 20.3	10.0 17.1	6.7 14.2	4.3 12.3	4.6 11.9	7.8 13.0	12.1 15.7	16.0 19.0
29 F	21.3 14.3	22.4 18.1	22.5 21.3	20.9 23.0	18.0 23.6	14.4 22.2	10.8 19.1	7.3 16.0	4.9 13.5	4.3 11.7	6.3 11.4	10.1 13.6
30 Sa	17.1 8.4	19.8 13.5	21.7 18.2	22.6 22.1	21.7 24.4	19.1 25.3	15.6 23.6	11.7 20.2	7.9 16.6	4.9 13.1	3.2 10.0	4.3 9.2
31 Su	11.9 2.7	16.3 8.2	19.6 14.2	22.4 19.5	23.8 23.6	23.1 26.2	20.2 26.5	16.3 23.9	12.1 19.8	7.9 15.6	4.1 11.3	1.5 7.8

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1985

Lat. 61° 14' N Long. 149° 53' W

SEPTEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	7.5	11.7	16.9	21.0	24.3	25.6	24.2	20.7	16.2	11.5	7.1	2.8
M	-2.2	2.6	9.9	16.4	21.6	25.6	27.6	26.5	22.8	18.0	13.3	8.9
2	5.5	6.9	13.1	18.9	23.4	26.5	27.3	24.6	20.2	15.1	10.2	5.8
Tu	1.1	-1.0	4.7	13.0	19.4	24.1	27.6	28.2	25.5	20.7	15.4	10.7
3	6.3	3.8	8.0	15.6	21.5	26.0	28.6	28.1	24.1	18.9	13.4	8.4
W	4.0	-2.7	.1	8.4	16.6	22.5	26.7	29.2	27.8	23.7	18.1	12.6
4	8.2	3.8	3.2	10.6	18.3	24.1	28.2	30.0	27.9	22.9	17.1	11.4
Th	6.5	2.0	-1.4	3.5	12.8	20.2	25.5	29.0	29.7	26.6	21.4	15.5
5	10.3	5.8	1.5	4.3	13.6	20.7	26.1	29.7	30.3	26.6	21.1	15.2
F	9.5	4.6	.2	.0	8.5	17.0	23.5	28.1	30.5	29.0	24.6	18.9
6	13.1	8.2	3.4	.4	7.0	16.4	22.6	27.5	30.3	29.4	24.7	19.0
Sa	13.2	7.6	2.8	-2.4	4.1	13.9	20.7	26.4	30.1	30.7	27.2	22.0
7	16.2	10.8	6.1	1.1	.9	10.2	18.5	24.1	28.2	30.0	27.5	22.5
Su	16.8	11.2	5.9	1.7	1.2	9.6	18.4	23.9	28.7	31.1	29.5	24.7
8	19.0	13.5	8.6	4.0	-4.4	2.9	12.9	20.0	25.0	28.2	28.8	25.4
M	20.4	14.9	9.7	4.9	1.8	4.9	14.8	21.7	26.4	30.0	30.8	27.4
9	22.0	16.1	11.0	6.6	2.2	-5.5	5.3	14.3	20.9	25.0	27.5	27.2
Tu	23.7	18.9	13.8	9.1	5.1	3.6	9.1	18.0	23.6	27.6	30.0	29.4
10	25.3	19.8	14.0	9.4	5.3	1.3	.6	6.7	14.5	20.6	24.1	26.1
W	25.6	22.8	18.5	14.0	9.7	6.5	6.5	12.0	18.8	23.7	27.1	28.7
11	27.5	23.7	18.6	13.2	9.0	5.1	1.7	1.8	6.7	13.4	18.9	22.3
Th	24.5	24.7	22.9	19.4	15.5	11.6	8.9	8.9	12.6	17.6	22.2	25.2
12	26.7	26.0	23.3	18.8	14.0	9.9	6.0	2.8	2.3	5.5	11.1	16.3
F	20.3	23.3	24.6	24.1	21.5	17.8	13.9	11.1	9.9	11.3	15.1	19.4
13	22.8	25.1	25.5	24.0	20.2	15.9	11.6	7.4	3.9	2.1	3.6	8.2
Sa	13.9	19.0	22.8	25.3	26.0	23.9	20.1	15.8	12.3	9.3	9.0	11.8
14	16.6	21.0	24.4	26.1	25.6	22.3	18.0	13.2	8.7	4.5	1.6	1.3
Su	5.8	12.7	18.8	23.2	26.6	27.9	25.8	21.3	16.6	11.9	7.8	6.2
15	8.8	14.9	20.5	24.9	27.4	27.4	24.0	19.4	14.2	9.2	4.6	.7
M	-2.7	5.2	13.4	19.8	24.4	28.2	29.2	26.4	21.2	15.8	10.5	6.1
16	3.5	7.2	14.8	21.3	26.1	29.0	28.7	24.9	19.8	14.2	8.9	4.4
Tu	-6.6	-1.1	6.9	15.5	21.7	26.2	29.6	29.4	25.6	19.7	14.0	8.9
17	4.1	1.6	7.6	16.2	23.0	27.8	30.4	29.2	24.7	19.1	13.3	8.1
W	3.6	-1.6	.7	10.4	18.5	24.2	28.3	30.4	28.5	23.6	17.5	11.9
18	7.2	1.8	1.2	9.7	18.2	24.8	29.3	31.1	28.6	23.5	17.7	11.8
Th	6.9	2.2	-1.4	4.9	14.5	21.8	26.9	30.1	30.2	26.7	21.0	15.0
19	9.8	5.2	-1.1	2.9	12.6	20.3	26.4	30.4	30.9	27.2	21.6	15.8
F	10.1	5.5	1.0	1.3	10.2	18.6	24.8	29.2	31.0	28.8	24.0	18.2
20	12.6	7.8	2.7	-5.5	6.3	15.4	22.2	27.6	30.6	29.7	25.2	19.3
Sa	13.8	8.3	4.0	1.2	6.2	15.4	22.1	27.4	30.6	30.3	26.4	20.8
21	15.2	10.1	5.5	.6	1.4	10.3	18.0	23.7	28.2	29.8	27.6	22.6
Su	17.0	11.7	6.8	3.2	3.9	12.0	19.8	25.0	29.0	30.5	28.1	23.1
22	17.3	12.3	7.7	3.3	.2	5.1	14.0	20.1	24.7	28.0	28.2	25.1
M	20.0	14.8	10.0	6.0	4.2	8.6	17.1	22.9	26.8	29.3	28.8	25.0
23	19.5	14.0	9.5	5.6	1.7	1.8	9.0	16.7	21.5	25.1	27.0	26.1
Tu	22.7	17.9	13.1	9.1	6.3	7.0	13.4	20.2	24.5	27.3	28.1	25.9
24	21.6	16.3	11.4	7.5	4.1	1.6	4.4	11.9	18.1	21.9	24.5	25.6
W	24.2	20.9	16.8	12.6	9.5	8.0	10.5	16.3	21.2	24.5	26.2	25.7
25	23.1	19.0	14.3	10.1	6.7	3.7	2.7	6.7	12.9	18.0	21.0	23.2
Th	24.1	23.0	20.4	17.0	13.4	11.0	10.4	12.9	16.8	20.3	22.9	24.0
26	23.2	21.1	17.8	13.9	10.2	7.1	4.4	4.2	7.4	12.2	16.4	19.4
F	21.9	23.3	22.8	21.1	18.3	15.2	13.0	12.2	13.2	15.2	18.0	20.5
27	21.7	21.7	20.5	18.1	14.9	11.5	8.3	5.6	5.0	6.6	10.3	14.3
Sa	17.9	21.2	23.3	23.6	22.8	20.1	16.9	14.3	12.5	11.6	12.5	15.4
28	18.4	20.4	21.6	21.4	19.7	16.6	13.1	9.5	6.4	4.6	4.8	8.1
Su	12.9	17.4	21.4	24.2	25.2	24.4	21.4	17.7	14.3	11.1	8.9	9.9
29	13.7	17.6	20.7	22.9	23.2	21.5	18.2	14.2	10.1	6.4	3.3	2.9
M	7.0	13.0	18.3	22.7	25.8	26.8	25.1	21.4	16.9	12.7	8.6	6.2
30	8.4	13.7	18.5	22.5	25.0	25.2	22.7	18.8	14.2	9.6	5.4	1.7
Tu	2.0	8.0	15.0	20.4	24.8	27.6	27.6	24.6	19.9	14.9	10.3	5.8

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1985

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Lat. 61° 14' N Long. 149° 53' W

OCTOBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	4.2	8.6	15.3	20.8	25.0	27.3	26.6	23.0	18.3	13.1	8.4	3.9
W	.4	2.8	10.9	18.1	23.3	27.2	29.1	27.4	23.0	17.4	12.2	7.5
2	3.1	3.3	10.6	17.9	23.6	27.6	29.2	27.0	22.4	16.9	11.5	6.8
Th	2.3	.0	5.8	14.9	21.6	26.3	29.5	29.7	26.1	20.6	14.6	9.6
3	4.9	.7	4.0	13.4	20.5	26.1	29.6	30.1	26.5	21.1	15.2	9.7
F	5.1	.9	1.6	10.5	18.9	25.0	29.2	31.2	29.1	24.1	18.0	12.1
4	7.3	2.2	-.8	6.3	16.1	22.7	27.9	30.9	29.9	25.3	19.5	13.5
Sa	8.0	3.5	.4	5.3	15.5	22.4	27.9	31.3	31.5	27.4	21.7	15.4
5	9.9	5.1	-.3	-.6	9.4	18.3	24.4	29.0	31.1	28.7	23.7	17.7
Su	11.9	6.6	2.3	1.8	10.6	19.8	25.4	30.2	32.4	30.3	24.9	18.9
6	13.1	7.9	2.9	-2.1	1.5	12.4	20.0	25.6	29.5	30.4	27.0	21.8
M	16.0	10.5	5.5	2.2	5.3	15.8	22.9	27.7	31.6	32.1	28.0	22.1
7	16.1	10.8	6.0	1.0	-2.2	4.5	14.6	21.3	26.1	29.2	29.0	25.3
Tu	20.0	14.6	9.4	5.1	3.5	9.7	19.3	24.8	29.1	31.6	30.4	25.3
8	19.4	13.7	9.0	4.4	-.2	-.8	7.1	15.8	22.0	25.9	28.2	27.4
W	23.8	18.8	13.8	9.1	5.8	6.1	13.1	20.7	25.5	29.0	30.4	28.1
9	23.2	17.5	12.3	7.9	3.6	.0	1.2	8.4	16.0	21.6	24.9	26.9
Th	26.2	23.2	18.6	14.1	9.9	7.5	8.7	14.3	20.0	24.5	27.4	28.2
10	26.0	22.0	16.8	12.1	7.9	4.0	1.3	2.7	8.3	15.0	20.0	23.4
F	25.6	25.7	23.4	19.6	15.5	11.7	9.6	9.9	13.2	17.7	22.0	24.8
11	25.9	24.9	22.1	17.6	13.4	9.1	5.4	2.8	3.1	7.0	12.9	17.9
Sa	21.9	24.8	26.0	24.7	21.6	17.5	13.7	11.0	9.4	10.5	14.3	18.8
12	22.2	24.4	24.9	23.2	19.4	15.4	11.0	7.1	3.8	2.7	5.0	10.5
Su	16.3	21.1	24.7	26.9	26.6	23.6	19.2	15.0	11.1	7.7	7.2	10.7
13	16.1	20.7	24.0	25.8	25.0	21.7	17.5	12.7	8.3	4.2	1.8	3.0
M	9.2	16.0	21.2	25.4	28.3	28.2	24.9	19.9	15.0	9.9	5.5	4.0
14	8.0	14.9	20.5	24.7	27.2	26.7	23.4	18.8	13.5	8.6	4.2	.8
Tu	2.1	9.8	17.0	22.4	26.7	29.6	28.8	24.8	19.1	13.7	8.3	3.3
15	1.5	7.4	15.4	21.5	26.0	28.7	27.8	24.0	18.9	13.3	8.2	4.0
W	.1	3.3	12.2	19.3	24.4	28.4	30.3	28.2	23.1	17.1	11.7	6.6
16	1.2	.7	8.8	17.1	23.3	27.6	29.7	27.9	23.5	17.9	12.2	7.5
Th	3.3	.6	6.8	15.7	22.2	26.8	29.9	29.9	26.3	20.5	14.6	9.4
17	4.6	-.6	2.1	11.5	19.3	25.2	29.0	30.0	27.1	22.0	16.3	10.6
F	6.4	2.6	3.0	11.5	19.4	25.2	29.1	30.6	28.5	23.6	17.6	12.0
18	7.3	2.3	-1.1	5.3	14.5	21.6	27.0	30.0	29.5	25.5	20.0	14.4
Sa	8.9	5.2	2.8	7.4	16.3	22.8	27.9	30.7	30.1	26.0	20.4	14.7
19	9.5	5.0	.2	.7	9.3	17.3	23.7	28.2	30.0	28.1	23.3	17.8
Su	12.4	7.4	4.4	5.1	12.8	20.2	25.6	29.7	30.8	28.0	22.8	17.1
20	12.0	7.1	2.7	-.5	4.4	13.3	19.8	25.2	28.8	29.1	26.1	20.8
M	15.6	10.5	6.4	4.8	9.3	17.7	23.2	27.6	30.2	29.2	25.0	19.3
21	13.9	9.2	4.9	.8	1.0	8.9	16.6	21.9	26.2	28.5	27.5	23.6
Tu	18.4	13.5	9.2	6.1	7.0	14.2	21.2	25.3	28.4	29.1	26.3	21.4
22	15.8	11.0	6.8	3.0	.4	4.3	12.9	19.2	23.3	26.4	27.4	25.4
W	21.2	16.4	12.0	8.6	7.0	10.5	17.9	22.9	26.1	27.8	26.8	23.1
23	18.1	13.0	8.7	5.1	2.0	1.7	7.8	15.4	20.6	23.8	25.9	26.0
Th	23.6	19.5	15.2	11.4	9.0	8.9	13.7	19.5	23.1	25.5	26.0	24.0
24	20.3	15.8	11.4	7.5	4.5	2.2	3.8	10.1	16.4	20.7	23.2	25.0
F	24.8	22.4	18.9	15.1	11.9	10.2	11.0	15.1	18.8	21.8	23.6	23.7
25	21.8	18.8	15.1	11.2	7.7	5.0	3.3	5.6	10.5	15.8	19.6	22.2
Sa	24.1	24.2	22.3	19.4	15.9	13.1	11.3	11.9	14.1	16.7	19.5	21.4
26	21.9	20.9	18.7	15.7	12.2	9.0	6.1	4.6	6.1	9.6	14.4	18.3
Su	21.4	23.8	24.4	23.1	20.6	17.1	14.1	11.8	11.1	11.7	14.1	17.2
27	19.8	21.3	21.3	19.9	17.3	13.9	10.5	7.2	5.3	5.4	8.2	13.1
M	17.6	21.4	24.3	25.3	24.4	21.6	17.8	14.1	11.0	8.8	8.8	11.9
28	16.0	19.6	22.0	22.8	21.7	19.0	15.4	11.5	7.7	5.0	4.2	7.2
Tu	13.0	18.2	22.3	25.5	26.7	25.3	21.7	17.3	13.0	9.0	5.9	6.4
29	11.0	16.3	20.7	23.8	24.8	23.5	20.2	16.0	11.5	7.4	4.1	3.3
W	7.6	14.5	20.0	24.3	27.2	27.9	25.3	20.7	15.6	10.9	6.4	3.2
30	5.1	11.7	17.8	22.8	26.0	26.8	24.6	20.5	15.7	10.8	6.5	3.1
Th	3.3	9.8	17.4	22.7	26.7	29.1	28.3	24.3	18.7	13.2	8.5	3.6
31	.8	5.2	13.6	20.0	25.1	28.1	28.2	25.0	20.1	14.6	9.6	5.3
F	2.3	4.8	13.5	20.7	25.7	29.3	30.5	27.8	22.5	16.3	10.8	6.1

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1985

Lat. 61° 14' N Long. 149° 53' W

NOVEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	1.0	-6	6.8	15.8	22.1	27.1	29.7	28.8	24.6	19.1	13.3	8.3
Sa	4.1	2.2	8.0	17.6	23.7	28.6	31.5	30.9	26.4	20.3	14.0	8.8
2	3.9	-1.4	-8	9.2	17.7	23.9	28.6	30.6	28.5	23.7	17.8	12.1
Su	7.1	3.2	3.4	12.3	21.1	26.4	31.0	32.7	30.0	24.3	18.1	12.1
3	7.0	1.9	-3.1	.7	11.6	19.3	25.3	29.5	30.6	27.5	22.4	16.5
M	11.0	6.1	2.9	6.1	16.6	23.6	28.6	32.4	32.6	28.1	22.0	15.9
4	10.4	5.4	.0	-3.6	3.3	13.6	20.7	26.2	29.7	29.8	26.2	20.9
Tu	15.3	9.9	5.5	3.7	9.7	19.8	25.3	30.0	32.7	31.2	25.8	19.7
5	14.0	8.8	3.8	-1.3	-2.5	6.0	15.3	21.9	26.6	29.5	28.7	24.9
W	19.6	14.3	9.2	5.5	5.4	13.0	21.3	26.3	30.3	31.7	29.1	23.5
6	17.7	12.3	7.3	2.6	-1.7	-4	8.2	16.5	22.5	26.4	28.7	27.6
Th	23.7	18.6	13.7	9.1	6.3	7.5	14.6	21.3	26.1	29.2	29.9	26.9
7	21.9	16.3	11.4	6.5	2.3	-8	1.7	9.4	17.1	22.3	25.9	27.9
F	26.8	23.2	18.5	13.8	9.8	7.6	8.8	14.2	20.0	24.6	27.1	27.6
8	25.3	21.0	15.9	11.3	6.7	3.0	.7	3.1	9.6	16.6	21.4	25.1
Sa	27.1	26.6	23.4	19.2	14.6	11.1	8.7	8.7	12.2	17.4	21.8	24.6
9	25.7	24.6	21.2	16.7	12.3	7.9	4.4	2.2	3.6	9.0	15.5	20.3
Su	24.3	26.8	27.0	24.5	20.5	15.9	12.3	9.0	7.2	9.3	14.1	18.9
10	22.4	24.5	24.7	22.2	18.4	14.1	9.6	5.9	3.2	3.5	7.9	14.3
M	19.6	23.9	26.9	27.8	25.7	21.7	16.9	12.8	8.2	5.1	6.0	11.0
11	16.7	21.0	24.1	25.4	23.7	20.3	15.9	11.2	7.1	3.8	3.2	7.1
Tu	14.0	19.6	24.1	27.5	28.7	26.6	22.1	17.0	12.2	6.8	2.9	3.2
12	9.2	15.9	20.8	24.5	26.4	25.2	21.9	17.0	12.1	7.6	4.2	2.9
W	7.4	15.0	20.5	25.0	28.4	29.1	26.4	21.4	15.9	10.7	5.3	.8
13	1.6	9.2	16.3	21.6	25.5	27.5	26.2	22.4	17.2	12.0	7.7	4.3
Th	3.4	9.5	17.0	22.3	26.5	29.1	28.7	25.0	19.5	14.0	8.8	3.7
14	-8	2.1	10.8	17.9	23.1	26.8	28.3	26.3	21.8	16.4	11.2	7.4
F	4.3	5.2	12.9	19.7	24.7	28.1	29.5	27.3	22.7	16.9	11.6	6.9
15	1.9	-1.3	4.4	13.2	20.0	24.8	28.0	28.5	25.4	20.4	15.0	9.9
Sa	6.8	4.7	8.6	16.6	22.5	27.1	29.5	28.9	25.2	19.8	14.3	9.1
16	4.9	.1	-1	7.8	15.8	22.3	26.6	28.9	27.9	23.8	18.6	13.1
Su	8.6	6.1	6.2	12.9	19.9	25.2	29.0	29.9	27.4	22.5	16.9	11.7
17	6.9	2.7	-8	2.9	11.4	18.5	24.3	27.9	28.9	26.5	21.6	16.5
M	11.2	7.4	5.9	9.4	17.0	22.6	27.3	29.9	29.0	25.0	19.5	14.2
18	9.2	4.8	.8	.1	7.0	14.8	21.0	25.9	28.5	28.1	24.4	19.4
Tu	14.4	9.6	6.6	7.1	13.4	20.2	24.8	28.5	29.4	26.9	22.0	16.5
19	11.5	6.9	2.8	-2	2.9	11.1	17.8	23.0	26.8	28.3	26.4	22.1
W	17.1	12.4	8.5	6.6	9.8	17.2	22.4	26.2	28.4	27.7	24.0	18.9
20	13.7	9.0	4.9	1.3	.5	6.7	14.6	20.2	24.4	27.1	27.3	24.4
Th	19.8	15.1	10.9	8.0	7.6	13.1	19.6	23.5	26.4	27.2	25.2	21.1
21	16.1	11.3	7.0	3.5	.8	2.8	10.2	17.0	21.9	25.0	26.8	26.0
F	22.6	18.1	13.7	10.2	8.1	9.5	15.5	20.3	23.6	25.6	25.4	22.8
22	18.7	14.1	9.6	5.8	2.8	1.4	5.6	12.5	18.5	22.5	25.0	26.2
Sa	24.8	21.3	17.1	13.0	10.2	8.6	11.1	16.1	19.8	22.7	24.1	23.6
23	21.0	17.2	13.1	9.0	5.6	3.0	2.9	7.6	13.4	18.9	22.4	24.7
Su	25.6	24.1	20.8	16.9	13.1	10.4	9.1	11.5	15.0	18.3	21.1	22.7
24	22.4	20.2	17.0	13.3	9.5	6.3	3.8	4.5	8.4	13.6	18.7	22.1
M	24.5	25.3	24.0	20.9	17.0	13.4	10.4	8.9	10.2	12.9	16.5	19.6
25	21.8	22.1	20.5	17.7	14.3	10.7	7.4	4.9	5.4	8.4	13.5	18.5
Tu	22.2	24.7	25.7	24.4	21.2	17.1	13.3	9.8	7.7	7.8	10.7	15.0
26	18.8	21.7	22.7	21.6	19.1	15.7	12.0	8.3	5.7	5.6	8.3	13.8
W	19.0	22.8	25.4	26.5	21.2	16.7	12.4	8.5	5.5	5.5	5.2	9.0
27	14.4	19.0	22.6	24.0	23.3	20.7	17.0	12.9	8.8	5.9	5.3	8.6
Th	14.9	20.4	24.2	26.8	27.5	25.2	20.6	15.5	10.9	6.6	2.9	2.9
28	8.3	14.8	20.0	24.0	25.6	24.9	22.0	17.7	13.1	8.8	5.6	5.2
F	9.7	17.0	22.2	26.1	28.5	28.4	24.9	19.4	13.9	9.1	4.5	.5
29	1.3	8.5	15.8	21.4	25.6	27.3	26.3	22.7	17.7	12.7	8.3	5.0
Sa	5.4	11.8	19.5	24.4	28.4	30.2	28.8	24.0	18.0	12.1	7.5	2.5
30	-1.6	.7	9.6	17.0	22.9	27.0	28.6	26.9	22.7	17.2	12.1	7.5
Su	4.5	6.2	14.6	21.9	26.6	30.5	31.4	28.4	22.7	16.4	10.7	6.0

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (M.O.S. chart datum).

BEST COPY AVAILABLE

ANCHORAGE, ALASKA, 1985

35

Lat. 61° 14' N Long. 149° 53' W

DECEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 M	6.7 -0.8	-3.2 4.1	1.2 7.8	11.0 17.4	18.2 23.7	24.3 28.6	28.2 32.0	29.4 31.8	27.0 27.3	22.2 21.3	16.5 15.0	11.3 9.6
2 Tu	4.7 10.3	-0.7 6.0	-4.0 4.2	2.6 10.0	12.4 19.6	19.6 25.2	25.4 30.1	29.1 32.7	29.5 31.2	26.4 25.8	21.2 19.8	15.6 13.8
3 W	8.5 14.6	3.4 9.4	-2.0 5.5	-3.7 4.8	4.7 12.3	13.9 21.0	21.0 26.3	26.3 30.8	29.5 32.4	29.1 29.8	25.4 24.2	20.1 18.2
4 Th	12.6 19.0	7.2 13.6	2.3 8.7	-2.9 5.3	-2.3 5.9	7.0 14.0	15.6 21.5	22.2 26.8	26.9 30.4	29.6 31.4	28.3 28.1	24.3 22.6
5 F	16.8 23.2	11.3 18.1	6.0 12.8	1.4 8.5	-3.0 5.4	0 6.9	9.1 14.4	17.3 21.2	23.2 26.2	27.4 29.2	29.4 29.7	27.6 26.5
6 Sa	21.2 27.0	15.6 22.5	10.3 17.5	5.2 12.4	1.0 8.6	-2.0 5.7	2.3 7.3	10.9 13.7	18.6 20.1	23.6 24.6	27.6 27.4	29.0 27.8
7 Su	25.1 28.6	20.2 26.6	15.0 22.3	9.9 17.4	5.2 12.6	1.3 9.0	-2 5.9	4.3 6.8	12.2 12.0	19.2 18.1	23.8 22.4	27.4 25.3
8 M	26.1 27.0	24.2 28.2	19.9 26.4	15.2 22.5	10.3 17.6	6.0 13.1	2.6 9.2	1.7 5.6	5.8 9.5	12.9 9.8	19.1 15.5	23.6 20.1
9 Tu	23.3 23.2	24.8 26.5	23.8 28.0	20.4 26.4	16.3 22.7	11.6 17.9	7.5 13.4	4.3 9.1	3.5 4.8	6.8 3.9	12.9 7.3	18.9 13.2
10 W	18.3 18.9	21.9 23.0	24.0 26.3	24.0 27.8	21.6 26.4	17.8 22.6	13.2 17.8	9.2 13.2	6.0 8.4	5.0 3.8	7.3 2.1	13.0 5.2
11 Th	11.8 13.6	17.3 19.2	21.2 23.2	23.9 26.4	24.8 27.6	23.0 26.0	19.3 22.0	14.7 17.0	10.6 12.2	7.4 7.3	6.0 2.8	7.7 .6
12 F	4.4 8.5	11.7 15.0	17.3 20.1	21.5 24.1	24.6 26.8	25.9 27.4	24.1 25.0	20.2 20.7	15.4 15.5	11.1 10.7	8.1 6.0	6.5 1.5
13 Sa	-0.3 6.8	5.1 10.3	12.6 16.9	18.4 21.7	22.6 25.5	25.7 27.4	26.8 26.9	24.5 23.5	20.1 18.7	15.2 13.6	10.9 8.8	8.2 4.5
14 Su	0.2 7.8	0 7.5	7.1 12.9	14.4 19.1	20.2 23.7	24.2 27.0	27.0 27.9	27.1 25.9	23.8 21.6	19.1 16.5	14.1 11.5	10.1 6.9
15 M	2.9 8.8	-0.8 7.1	1.9 9.2	9.8 15.8	16.8 21.3	22.3 25.8	26.0 28.2	27.9 27.8	26.4 24.4	22.4 19.4	17.5 14.3	12.4 9.4
16 Tu	5.1 10.5	1.1 7.6	-0.7 7.1	5.0 12.0	12.8 18.5	19.4 23.6	24.4 27.4	27.5 28.7	27.9 26.9	25.0 22.5	20.4 17.2	15.4 12.1
17 W	7.3 13.1	3.2 8.8	-0.4 6.6	1.1 8.4	8.6 15.1	15.8 20.8	21.9 25.4	26.1 28.2	28.2 28.2	27.0 25.2	23.0 20.2	18.1 14.9
18 Th	9.9 15.8	5.4 11.1	1.4 7.5	-0.7 6.4	4.3 11.0	12.2 17.8	18.8 22.6	23.9 26.4	27.3 28.0	28.0 26.8	25.4 22.9	20.8 17.7
19 F	12.5 18.6	7.6 13.7	3.6 9.5	0 6.7	0.9 7.5	8.1 13.9	15.5 19.6	21.3 23.8	25.3 26.6	27.8 27.1	27.0 24.7	23.4 20.3
20 Sa	15.2 21.4	10.2 16.6	5.6 11.9	2.0 8.5	-0.2 6.3	4.0 9.4	11.6 16.0	18.3 20.6	23.1 24.2	26.3 26.2	27.6 25.7	25.6 22.5
21 Su	17.9 24.1	13.0 19.7	8.2 14.9	4.2 10.7	1.0 7.7	1.2 6.5	7.5 11.1	14.5 16.8	20.5 20.8	24.4 23.9	26.8 25.3	26.9 24.1
22 M	20.5 26.0	16.0 22.8	11.4 18.3	7.0 13.6	3.5 9.9	1.1 7.0	3.7 6.9	10.4 11.7	16.7 16.5	22.0 20.4	25.2 23.1	26.8 24.4
23 Tu	22.8 26.6	19.2 25.3	15.0 21.8	10.8 17.1	6.9 12.7	3.6 9.3	2.3 6.4	6.4 6.8	12.4 10.9	18.3 15.5	22.9 19.5	25.6 22.3
24 W	23.6 25.8	22.0 26.3	18.9 24.8	15.1 21.2	11.2 16.3	7.6 12.1	4.5 8.6	4.2 5.6	8.3 5.8	13.8 9.2	19.4 14.2	23.4 18.5
25 Th	21.6 23.8	23.1 26.0	22.1 26.4	19.5 24.8	16.1 20.7	12.5 15.7	8.9 11.5	5.9 7.7	5.9 4.5	9.4 3.9	14.7 7.2	20.2 12.9
26 F	17.6 20.9	21.3 24.3	23.3 26.6	22.9 27.0	21.0 25.0	17.8 20.4	14.0 15.3	10.2 10.7	7.2 6.7	6.8 3.1	9.8 1.8	15.5 5.4
27 Sa	11.9 16.2	17.1 21.6	21.5 25.0	24.0 27.6	24.3 27.9	22.8 25.4	19.5 20.2	15.3 14.8	11.2 9.9	8.0 5.7	6.9 1.5	9.9 -1.1
28 Su	4.0 10.0	11.3 17.1	17.1 22.4	22.1 26.2	25.1 29.0	26.0 28.9	24.5 25.5	20.8 20.0	16.0 14.2	11.7 9.3	7.9 4.8	6.6 .1
29 M	-1.7 6.0	3.2 10.3	11.2 18.1	17.6 23.3	23.1 27.7	26.3 30.4	27.5 29.7	25.6 25.5	21.3 19.7	16.1 13.7	11.5 8.7	7.3 3.9
30 Tu	-1.0 6.5	-3.0 5.4	3.2 10.8	11.7 19.1	18.6 24.4	24.3 29.2	27.6 31.5	28.4 30.1	25.9 25.1	21.0 19.2	15.7 13.2	10.7 8.1
31 W	3.1 9.6	-2.1 5.6	-3.6 4.8	4.1 11.8	12.8 20.0	20.1 25.6	25.4 30.3	28.7 32.1	28.8 29.8	25.5 24.5	20.2 18.4	14.9 12.6

Time meridian 135° W. 0 is midnight, 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

WIKISHKA, ALASKA, 1986

Lat. 60° 41'N Long. 151° 24'W

JANUARY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	2.9	.3	-.4	1.5	6.0	11.4	15.7	18.5	19.7	19.0	16.5	12.8
W	9.0	6.2	4.8	5.3	8.3	12.5	16.1	18.1	18.5	17.4	14.6	10.7
2	6.4	3.1	1.1	1.1	3.6	8.1	13.0	16.7	18.9	19.5	18.4	15.6
Th	11.8	8.3	5.8	4.6	5.3	8.1	12.0	15.0	16.8	17.3	16.5	14.0
3	10.4	6.7	4.0	2.7	3.0	5.6	9.9	14.2	17.2	19.0	19.3	17.9
F	15.0	11.3	7.9	5.5	4.3	4.8	7.3	10.7	13.6	15.5	16.5	16.0
4	14.0	10.9	7.8	5.6	4.4	4.8	7.2	11.1	14.9	17.6	19.2	19.4
Sa	17.8	14.7	11.0	7.7	5.2	3.6	3.7	6.0	9.2	12.1	14.6	16.1
5	16.2	14.6	12.0	9.3	7.3	6.1	6.2	8.3	11.8	15.3	17.9	19.5
Su	19.7	17.9	14.7	11.0	7.6	4.6	2.5	2.2	4.3	7.6	11.0	14.2
6	16.4	17.0	15.8	13.4	10.9	8.7	7.1	6.9	8.7	12.1	15.6	18.4
M	20.2	20.2	18.3	15.0	11.0	7.2	3.6	.9	.5	2.7	6.4	10.6
7	14.5	17.3	18.2	17.1	14.8	12.1	9.6	7.4	6.9	8.8	12.3	16.1
Tu	19.2	21.1	21.0	18.8	15.1	10.8	6.4	2.2	-8	-1.1	1.5	6.0
8	11.0	15.5	18.7	19.5	18.3	15.7	12.7	9.6	7.0	6.4	8.6	12.6
W	16.8	20.2	22.1	21.7	19.2	15.0	10.2	5.3	.6	-2.5	-2.3	1.2
9	6.4	12.1	17.0	20.1	20.7	19.0	16.0	12.4	8.8	6.1	5.8	8.6
Th	13.1	17.7	21.3	23.0	22.2	19.1	14.5	9.3	3.9	-1.0	-3.7	-2.6
10	1.7	7.7	13.7	18.6	21.4	21.4	19.1	15.6	11.5	7.5	4.9	5.2
F	8.8	13.8	18.6	22.1	23.5	22.2	18.6	13.6	8.0	2.3	-2.3	-4.2
11	-2.1	3.1	9.5	15.5	20.1	22.2	21.5	18.6	14.5	10.1	6.0	3.8
Sa	5.0	9.2	14.6	19.4	22.5	23.4	21.6	17.6	12.2	6.5	1.0	-3.1
12	-3.9	-.7	5.1	11.6	17.3	21.2	22.5	21.1	17.6	13.1	8.5	4.6
Su	3.1	5.1	9.9	15.3	19.7	22.4	22.8	20.5	16.1	10.7	5.1	.1
13	-3.0	-2.6	1.5	7.5	13.7	18.7	21.8	22.3	20.1	16.2	11.5	7.0
M	3.7	3.0	5.7	10.6	15.6	19.5	21.7	21.5	18.9	14.4	9.1	4.1
14	-.1	-2.0	-.5	4.1	10.0	15.4	19.6	21.8	21.5	18.8	14.6	10.0
Tu	6.0	3.3	3.3	6.4	11.1	15.5	18.8	20.4	19.8	17.1	12.7	8.0
15	3.7	.6	-.3	2.1	6.8	12.1	16.6	19.9	21.3	20.3	17.3	13.1
W	8.9	5.5	3.4	4.0	7.1	11.2	14.9	17.5	18.7	18.0	15.3	11.4
16	7.5	4.2	2.1	2.1	4.8	9.2	13.6	17.1	19.6	20.3	18.9	15.8
Th	12.0	8.3	5.5	3.9	4.7	7.5	10.8	13.7	15.9	17.0	16.4	14.0
17	10.8	7.8	5.4	4.2	4.7	7.4	11.0	14.4	17.1	18.9	19.2	17.6
F	14.7	11.3	8.2	5.8	4.5	5.1	7.3	9.9	12.3	14.3	15.5	15.2
18	13.4	11.0	8.8	7.2	6.4	7.0	9.3	12.1	14.6	16.7	18.0	18.1
Sa	16.6	13.9	11.1	8.4	6.1	4.7	5.0	6.6	8.7	10.9	13.1	14.6
19	14.8	13.6	11.8	10.3	9.1	8.3	8.7	10.4	12.5	14.4	16.1	17.4
Su	17.4	16.0	13.6	11.1	8.6	6.2	4.4	4.3	5.6	7.5	10.0	12.6
20	14.5	15.0	14.3	13.0	11.8	10.6	9.5	9.6	10.8	12.5	14.2	15.9
M	17.2	17.2	15.8	13.5	11.1	8.4	5.6	3.6	3.3	4.6	6.8	9.7
21	12.9	15.1	15.9	15.3	14.2	12.9	11.3	9.8	9.7	10.8	12.5	14.3
Tu	16.2	17.4	17.3	15.8	13.4	10.7	7.6	4.4	2.2	2.2	4.0	6.8
22	10.4	13.9	16.3	17.0	16.2	14.9	13.1	11.0	9.3	9.2	10.7	12.7
W	14.9	17.0	18.1	17.7	15.7	13.0	9.7	6.1	2.6	.8	1.5	4.1
23	7.7	11.8	15.5	17.7	17.9	16.7	14.7	12.3	9.8	8.2	8.7	10.8
Th	13.5	16.1	18.2	18.9	17.9	15.3	11.9	8.1	4.0	.6	-.4	1.4
24	5.1	9.5	13.9	17.3	18.9	18.3	16.4	13.7	10.7	8.1	7.0	8.4
F	11.5	14.8	17.7	19.5	19.6	17.7	14.4	10.2	5.8	1.6	-1.1	-.9
25	2.3	6.9	11.9	16.2	19.0	19.6	18.1	15.3	11.9	8.6	6.2	6.1
Sa	8.7	12.7	16.5	19.3	20.6	19.8	17.0	12.8	8.0	3.3	-.6	-2.3
26	-.5	4.0	9.5	14.5	18.4	20.3	19.8	17.2	13.5	9.6	6.3	4.5
Su	5.6	9.5	14.2	18.2	20.7	21.2	19.5	15.7	10.7	5.5	.9	-2.3
27	-2.5	.9	6.6	12.3	17.1	20.2	20.9	19.2	15.6	11.3	7.2	4.2
M	3.4	5.8	10.7	15.8	19.5	21.4	21.1	18.5	13.9	8.5	3.2	-.9
28	-2.9	-1.5	3.2	9.5	15.2	19.3	21.3	20.8	18.0	13.6	9.0	5.0
Tu	2.7	3.0	6.5	12.0	17.0	20.3	21.5	20.4	17.0	12.0	6.4	1.6
29	-1.6	-2.3	.4	6.1	12.5	17.6	20.7	21.6	20.0	16.4	11.5	6.9
W	3.4	1.8	3.1	7.4	13.0	17.6	20.2	20.8	19.1	15.4	10.3	5.1
30	1.0	-1.1	-.6	3.2	9.2	15.1	19.3	21.3	21.2	18.8	14.6	9.7
Th	5.4	2.5	1.7	3.6	8.2	13.4	17.3	19.4	19.5	17.6	13.9	9.1
31	4.7	1.6	.5	1.9	6.1	11.9	16.9	20.0	21.2	20.3	17.4	13.1
F	8.4	4.7	2.4	2.0	4.2	8.5	13.0	16.3	18.0	18.0	16.3	13.0

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

Lat. 60° 41' N Long. 151° 24' W

FEBRUARY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	8.9	5.4	3.2	2.8	4.6	8.8	13.8	17.8	20.0	20.5	19.3	16.2
Sa	12.1	7.9	4.7	2.8	2.4	4.4	8.0	11.9	14.7	16.3	16.7	15.5
2	12.8	9.6	7.0	5.5	5.4	7.0	10.6	14.7	17.8	19.4	19.7	18.4
Su	15.6	11.8	8.2	5.3	3.3	2.6	3.9	6.9	10.2	12.9	15.0	16.0
3	15.4	13.5	11.1	9.1	7.9	7.4	8.6	11.3	14.6	17.2	18.7	19.1
M	18.1	15.6	12.3	8.9	6.0	3.6	2.2	2.9	5.3	8.4	11.5	14.2
4	16.0	16.1	14.9	13.0	11.2	9.6	8.6	9.0	11.1	13.9	16.4	18.2
Tu	19.1	18.5	16.3	13.1	9.8	6.5	3.3	1.2	1.4	3.7	7.0	10.8
5	14.4	16.8	17.4	16.5	14.7	12.6	10.3	8.5	8.3	10.2	13.1	15.9
W	18.3	19.7	19.3	17.2	14.0	10.3	6.3	2.3	-1.3	-1.1	2.5	6.5
6	11.1	15.4	18.2	18.9	17.8	15.7	13.0	9.9	7.4	7.1	9.1	12.5
Th	16.0	19.0	20.7	20.3	18.0	14.5	10.2	5.4	.8	-1.8	-1.2	2.2
7	7.1	12.5	17.1	19.9	20.3	18.6	15.8	12.2	8.3	5.6	5.6	8.4
F	12.5	16.7	20.1	21.8	21.1	18.3	14.2	9.2	3.8	-1.9	-3.0	-1.4
8	3.0	8.8	14.6	19.2	21.4	21.0	18.5	14.8	10.5	6.2	3.7	4.6
Sa	8.2	13.1	17.8	21.3	22.6	21.4	17.9	13.0	7.5	1.9	-2.4	-3.4
9	-1.5	4.9	11.2	17.0	21.1	22.4	21.0	17.5	13.0	8.2	3.9	2.2
Su	4.2	8.8	14.2	19.0	22.2	22.9	20.8	16.6	11.2	5.5	.1	-3.2
10	-2.7	1.5	7.7	14.0	19.3	22.4	22.6	20.1	15.8	10.7	5.8	2.1
M	1.5	4.6	9.9	15.4	19.9	22.5	22.3	19.5	14.7	9.1	3.5	-1.0
11	-2.9	-1.8	4.4	10.8	16.6	21.0	22.9	21.9	18.4	13.5	8.3	3.7
Tu	1.0	1.6	5.6	11.2	16.4	20.3	22.0	21.0	17.5	12.5	7.1	2.3
12	-1.1	-1.4	1.9	7.7	13.7	18.7	21.8	22.5	20.4	16.2	11.1	6.3
W	2.4	.8	2.5	7.0	12.4	16.9	19.9	20.8	19.2	15.3	10.4	5.7
13	2.0	.0	1.1	5.3	10.9	16.0	19.8	21.7	21.2	18.3	13.9	9.1
Th	4.9	2.0	1.4	3.9	8.4	13.0	16.6	18.8	19.1	17.1	13.4	9.0
14	5.3	2.8	2.1	4.2	8.5	13.4	17.3	19.8	20.6	19.3	16.1	11.8
F	7.7	4.4	2.5	2.6	5.2	9.2	12.9	15.7	17.2	17.2	15.2	12.0
15	8.6	6.0	4.6	4.9	7.3	11.2	15.0	17.6	19.0	19.0	17.4	14.2
Sa	10.5	7.2	4.8	3.5	3.9	6.2	9.4	12.1	14.2	15.5	15.5	14.0
16	11.5	9.1	7.6	7.0	7.6	9.8	12.8	15.4	16.9	17.6	17.3	15.7
Su	13.0	10.0	7.5	5.7	4.6	4.8	6.5	8.8	10.8	12.6	14.0	14.4
17	13.5	11.9	10.4	9.6	9.2	9.7	11.3	13.3	14.9	15.8	16.3	16.1
M	14.8	12.6	10.3	8.3	6.6	5.2	4.9	6.0	7.6	9.3	11.3	13.2
18	14.2	13.9	13.0	12.1	11.4	10.8	10.7	11.6	12.9	13.9	14.7	15.4
Tu	15.6	14.7	12.9	10.9	9.0	7.0	5.0	4.2	4.8	6.3	8.3	10.9
19	13.4	14.8	15.0	14.3	13.5	12.5	11.2	10.5	11.0	12.0	13.1	14.3
W	15.4	15.9	15.2	13.6	11.5	9.2	6.5	3.9	2.9	3.6	5.5	8.2
20	11.5	14.4	16.1	16.2	15.4	14.1	12.4	10.5	9.4	9.8	11.2	12.8
Th	14.7	16.3	16.9	16.1	14.1	11.5	8.4	5.0	2.2	1.4	2.8	5.6
21	9.2	13.1	16.1	17.5	17.2	15.7	13.6	11.1	8.7	7.7	8.7	10.9
F	13.5	16.0	17.8	18.1	16.7	14.0	10.6	6.7	2.7	.2	.3	2.9
22	6.8	11.2	15.4	18.1	18.8	17.5	15.0	12.0	8.8	6.3	6.1	8.2
Sa	11.5	14.9	17.8	19.5	19.1	16.8	13.1	8.7	4.2	.2	-1.4	.1
23	4.1	9.1	14.0	17.9	19.8	19.3	16.9	13.4	9.5	6.0	4.0	4.9
Su	8.5	12.9	16.9	19.8	20.8	19.5	16.0	11.3	6.2	1.5	-1.9	-2.1
24	1.2	6.6	12.2	17.1	20.3	20.9	19.0	15.3	10.9	6.5	3.1	2.2
M	4.6	9.5	14.8	19.0	21.5	21.5	19.0	14.5	9.0	3.6	-1.8	-3.0
25	-1.5	3.4	9.8	15.6	19.9	21.9	21.1	17.8	13.0	8.0	3.6	.8
Tu	1.2	5.2	11.1	16.7	20.6	22.3	21.4	17.9	12.5	6.6	1.4	-2.2
26	-2.9	.3	6.6	13.3	18.7	22.0	22.6	20.4	15.9	10.4	5.2	1.1
W	-1.6	1.1	6.3	12.7	18.1	21.5	22.3	20.5	16.2	10.5	4.7	.2
27	-2.2	-1.4	3.2	10.1	16.5	21.0	23.0	22.2	18.8	13.6	7.9	2.9
Th	-1.4	-1.0	1.8	7.6	13.9	18.8	21.3	21.4	19.0	14.4	8.8	3.8
28	.2	-1.9	1.2	6.6	13.4	18.9	22.1	22.9	21.0	16.9	11.4	6.0
F	1.6	-1.8	-1.6	3.0	8.7	14.4	18.4	20.3	19.9	17.3	12.9	8.0

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

NIKISHKA, ALASKA, 1986

Lat. 60° 41'N Long. 151° 24'W

MARCH

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	3.9	1.5	1.4	4.3	9.8	15.7	20.1	22.1	21.8	19.4	15.0	9.8
Sa	5.0	1.5	-2	.5	4.0	9.2	14.0	17.1	18.6	18.2	15.9	12.1
2	8.2	5.2	3.8	4.3	7.2	12.1	16.9	19.9	21.0	20.3	17.7	13.7
Su	9.2	5.2	2.4	1.0	1.6	4.6	8.9	12.6	15.3	16.7	16.7	15.1
3	12.3	9.4	7.3	6.4	6.9	9.3	13.2	16.7	18.8	19.5	18.8	16.7
M	13.3	9.6	6.3	3.8	2.3	2.4	4.5	7.7	10.8	13.3	15.2	15.9
4	15.1	13.2	11.2	9.7	8.6	8.6	10.2	12.9	15.4	17.1	18.0	17.9
Tu	16.4	13.8	10.8	7.9	5.3	3.1	2.4	3.6	6.1	8.9	11.9	14.5
5	16.0	16.0	14.8	13.2	11.6	10.0	9.0	9.7	11.6	13.7	15.6	17.1
W	17.7	17.0	15.0	12.3	9.4	6.2	3.2	1.6	2.2	4.5	7.7	11.4
6	14.8	17.0	17.4	16.5	14.8	12.6	10.0	8.1	8.1	9.8	12.1	14.7
Th	17.1	18.4	18.1	16.3	13.6	10.2	6.2	2.3	.2	.9	3.5	7.5
7	12.1	16.2	18.6	19.0	17.7	15.4	12.3	8.7	6.3	6.2	8.2	11.3
F	14.8	17.9	19.7	19.4	17.3	14.1	9.9	5.1	.8	-1.1	.2	3.7
8	8.6	13.9	18.2	20.3	20.1	18.0	14.8	10.7	6.5	4.0	4.5	7.3
Sa	11.4	15.8	19.3	21.0	20.2	17.5	13.5	8.6	3.3	-.9	-1.9	.6
9	5.2	10.9	16.4	20.3	21.6	20.4	17.3	13.1	8.2	3.8	1.9	3.5
Su	7.5	12.5	17.3	20.8	21.8	20.3	16.7	12.0	6.6	1.3	-2.0	-1.6
10	2.2	7.8	13.9	19.1	22.0	22.1	19.6	15.4	10.4	5.3	1.4	.7
M	3.6	8.6	14.1	18.9	21.8	21.9	19.4	15.0	9.8	4.3	-.3	-2.1
11	.0	5.0	11.2	17.0	21.2	22.8	21.5	17.8	12.8	7.5	2.6	-.3
Tu	.5	4.7	10.4	15.9	20.2	22.1	21.2	17.7	12.7	7.4	2.5	-.9
12	-1.0	2.6	8.5	14.5	19.5	22.5	22.6	19.9	15.2	9.9	4.7	.6
W	-.9	1.3	6.4	12.3	17.4	20.8	21.6	19.7	15.5	10.4	5.5	1.5
13	-.3	1.3	6.0	12.0	17.4	21.1	22.5	21.2	17.5	12.4	7.1	2.6
Th	-.3	-.4	3.0	8.5	13.9	18.1	20.5	20.3	17.7	13.3	8.5	4.5
14	1.8	1.5	4.3	9.6	15.0	19.1	21.4	21.4	19.1	14.8	9.7	5.1
F	1.6	-.1	1.0	5.0	10.2	14.8	18.0	19.4	18.5	15.6	11.5	7.5
15	4.5	3.2	4.1	7.7	12.6	16.9	19.6	20.6	19.5	16.6	12.3	7.8
Sa	4.1	1.6	1.0	2.8	6.8	11.2	14.7	17.0	17.7	16.6	13.9	10.4
16	7.4	5.7	5.4	7.0	10.6	14.7	17.6	18.9	18.9	17.3	14.4	10.5
Su	6.8	4.1	2.6	2.6	4.5	8.0	11.3	13.8	15.4	15.9	15.0	12.9
17	10.3	8.3	7.5	7.8	9.5	12.5	15.4	17.0	17.5	17.0	15.4	12.8
M	9.7	6.9	5.0	4.0	4.0	5.6	8.2	10.6	12.4	13.8	14.5	14.1
18	12.7	11.0	9.9	9.5	9.8	11.0	13.2	15.0	15.7	15.8	15.4	14.2
Tu	12.2	9.8	7.8	6.3	5.2	4.8	5.8	7.5	9.3	10.9	12.6	13.9
19	14.1	13.3	12.2	11.5	11.0	10.8	11.4	12.7	13.7	14.2	14.5	14.6
W	14.0	12.5	10.6	8.9	7.3	5.7	4.7	5.0	6.3	8.0	10.1	12.4
20	14.2	14.8	14.3	13.4	12.5	11.5	10.5	10.5	11.3	12.3	13.1	14.1
Th	14.8	14.7	13.5	11.7	9.7	7.5	5.1	3.6	3.8	5.2	7.4	10.2
21	13.2	15.4	16.1	15.4	14.2	12.6	10.7	9.1	8.8	9.8	11.3	13.0
F	14.7	16.0	16.0	14.6	12.3	9.6	6.6	3.6	2.0	2.6	4.8	8.0
22	11.6	15.0	17.1	17.3	16.1	14.0	11.5	8.7	6.8	6.8	8.6	11.1
Sa	13.9	16.3	17.7	17.3	15.2	12.1	8.6	4.7	1.5	.5	2.1	5.6
23	9.8	14.1	17.4	18.9	18.1	15.8	12.6	9.1	5.9	4.2	5.2	8.3
Su	12.0	15.6	18.4	19.4	18.2	15.1	11.0	6.6	2.4	-.5	-.4	2.8
24	7.6	12.7	17.1	19.8	20.1	18.1	14.4	10.2	6.0	2.8	1.9	4.4
M	8.9	13.7	17.9	20.5	20.7	18.4	14.2	9.2	4.3	.2	-1.7	.0
25	4.8	10.7	16.1	20.1	21.7	20.5	17.0	12.2	7.2	2.7	.0	.5
Tu	4.5	10.3	15.8	20.0	22.0	21.2	17.7	12.6	7.1	2.1	-1.4	-1.8
26	1.6	7.8	14.2	19.4	22.4	22.6	19.9	15.0	9.4	4.0	-.3	-2.0
W	.0	5.5	12.1	17.8	21.6	22.7	20.8	16.5	10.8	5.2	.6	-1.8
27	-.6	4.4	11.3	17.7	22.0	23.7	22.4	18.4	12.6	6.5	1.2	-2.3
Th	-2.9	.6	7.0	13.8	19.2	22.2	22.4	19.8	14.9	9.1	3.9	.2
28	-.9	1.6	7.6	14.6	20.3	23.4	23.8	21.2	16.3	10.1	4.2	-.6
F	-3.2	-2.6	1.8	8.5	15.0	19.6	21.9	21.4	18.3	13.4	8.1	3.6
29	.9	1.0	4.5	10.8	17.2	21.7	23.6	22.8	19.4	14.2	8.2	2.8
Sa	-1.2	-2.9	-1.5	3.3	9.7	15.3	19.1	20.7	19.9	16.8	12.3	7.8
30	4.3	2.7	3.5	7.4	13.2	18.5	21.7	22.5	21.1	17.5	12.5	7.2
Su	2.6	-.5	-1.7	.1	4.6	10.0	14.6	17.7	19.0	18.3	15.7	12.0
31	8.5	5.9	4.9	6.0	9.6	14.4	18.4	20.5	20.7	19.2	16.0	11.7
M	7.3	3.6	1.0	.1	1.5	5.2	9.6	13.2	15.8	17.3	17.0	15.2

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

Lat. 60° 41'N Long. 151° 24'W

APRIL

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	12.5	9.8	8.0	7.1	7.9	10.7	14.3	17.0	18.5	18.7	17.7	15.3
Tu	11.9	8.3	5.3	2.9	1.7	2.4	5.1	8.4	11.4	14.1	16.0	16.6
2	15.5	13.6	11.6	9.9	8.7	8.7	10.4	12.9	14.9	16.3	17.1	16.9
W	15.4	12.8	10.0	7.3	4.6	2.6	2.5	4.3	6.9	9.9	13.1	15.7
3	16.9	16.5	15.1	13.2	11.2	9.1	8.2	9.0	10.8	12.7	14.7	16.4
Th	17.0	16.2	14.3	11.7	8.8	5.5	2.7	1.9	3.2	5.8	9.2	13.1
4	16.4	18.0	17.8	16.4	14.2	11.3	8.4	6.6	7.0	8.7	11.1	14.0
F	16.5	17.8	17.4	15.6	12.9	9.4	5.4	2.0	1.0	2.4	5.5	9.7
5	14.3	17.8	19.4	18.9	17.0	14.0	10.2	6.5	4.4	4.9	7.2	10.5
Sa	14.3	17.5	19.0	18.5	16.4	13.1	8.9	4.3	.9	.4	2.5	6.5
6	11.4	16.3	19.7	20.6	19.4	16.6	12.7	8.1	4.0	2.2	3.5	6.7
Su	11.0	15.5	18.9	20.1	19.0	16.2	12.3	7.5	2.8	.0	.5	3.7
7	8.6	14.0	18.7	21.3	21.2	18.8	15.0	10.3	5.3	1.4	.7	3.1
M	7.4	12.5	17.2	20.2	20.7	18.7	15.1	10.6	5.7	1.4	-.2	1.7
8	6.1	11.6	16.9	20.8	22.1	20.7	17.2	12.5	7.3	2.4	-.5	.1
Tu	3.9	9.1	14.6	18.9	21.1	20.5	17.5	13.3	8.5	3.9	.7	.7
9	4.1	9.3	14.9	19.5	22.1	22.0	19.2	14.7	9.5	4.3	.0	-1.5
W	.7	5.6	11.3	16.6	20.2	21.2	19.5	15.8	11.2	6.6	2.7	.9
10	2.6	7.2	12.8	17.8	21.3	22.3	20.7	16.8	11.7	6.4	1.8	-1.3
Th	-1.3	2.3	7.9	13.5	18.1	20.6	20.6	18.0	13.8	9.2	5.2	2.5
11	2.3	5.3	10.5	15.8	19.8	21.8	21.4	18.6	13.9	8.7	3.9	.2
F	-1.6	.0	4.5	10.1	15.2	18.8	20.3	19.3	16.1	11.9	7.8	4.7
12	3.3	4.4	8.4	13.6	17.9	20.6	21.2	19.6	16.0	11.2	6.3	2.3
Sa	-.3	-.7	1.9	6.7	11.9	16.0	18.5	19.2	17.6	14.4	10.5	7.2
13	5.2	4.8	7.0	11.2	15.8	18.9	20.2	19.7	17.4	13.5	9.0	4.8
Su	1.8	.2	.8	3.9	8.5	12.8	15.9	17.6	17.7	16.0	13.0	9.8
14	7.5	6.3	6.8	9.4	13.3	16.8	18.6	18.9	17.8	15.2	11.6	7.7
M	4.4	2.3	1.5	2.5	5.6	9.5	12.8	15.0	16.2	16.2	14.8	12.3
15	9.9	8.3	7.9	8.7	11.1	14.3	16.6	17.5	17.1	15.9	13.6	10.5
Tu	7.3	4.9	3.4	2.9	3.9	6.6	9.6	12.0	13.8	15.0	15.2	14.1
16	12.3	10.5	9.5	9.3	9.9	11.9	14.2	15.6	15.9	15.5	14.6	12.8
W	10.3	7.8	5.8	4.6	4.0	4.7	6.7	9.1	11.0	12.8	14.3	14.8
17	14.2	12.8	11.4	10.5	10.0	10.2	11.5	13.1	14.0	14.4	14.5	14.1
Th	12.9	10.8	8.7	6.9	5.4	4.4	4.6	6.2	8.3	10.3	12.5	14.4
18	15.3	14.9	13.5	12.1	10.9	9.8	9.4	10.2	11.5	12.6	13.6	14.4
F	14.6	13.7	11.8	9.5	7.4	5.4	3.9	3.9	5.5	7.8	10.4	13.2
19	15.5	16.4	15.7	14.1	12.2	10.2	8.4	7.5	8.3	10.0	11.9	13.7
Sa	15.3	15.8	14.8	12.6	10.0	7.3	4.6	2.8	3.0	5.2	8.2	11.6
20	14.9	17.2	17.7	16.4	14.0	11.3	8.4	6.0	5.2	6.5	9.1	12.0
Su	14.9	16.9	17.3	15.9	13.1	9.7	6.3	3.2	1.6	2.5	5.7	9.7
21	13.8	17.3	19.2	18.7	16.4	13.0	9.3	5.7	3.1	2.9	5.3	9.1
M	13.2	16.7	18.8	18.8	16.5	12.9	8.8	4.8	1.7	.7	2.8	7.2
22	12.3	16.8	19.9	20.8	19.1	15.5	11.0	6.5	2.5	.2	1.1	4.9
Tu	10.0	15.0	18.8	20.6	19.7	16.5	12.1	7.4	3.2	.5	.6	4.2
23	9.8	15.4	19.8	22.1	21.7	18.7	13.8	8.5	3.4	-.5	-2.0	.2
W	5.4	11.6	17.0	20.7	21.8	20.0	16.0	10.9	6.0	2.0	.0	1.5
24	6.5	12.9	18.6	22.4	23.5	21.7	17.3	11.6	5.7	.5	-3.0	-3.3
Th	.3	6.6	13.3	18.7	21.9	22.2	19.6	15.0	9.7	4.8	1.4	.5
25	3.3	9.3	15.9	21.1	23.9	23.8	20.8	15.5	9.2	3.2	-1.7	-4.4
F	-3.6	1.2	8.2	14.8	19.8	22.3	21.9	18.7	13.9	8.7	4.3	1.6
26	1.7	5.6	12.0	18.3	22.7	24.3	23.1	19.3	13.5	7.2	1.5	-2.8
Sa	-4.6	-2.8	2.7	9.6	15.8	20.0	21.9	20.9	17.6	12.9	8.2	4.4
27	2.5	3.6	8.0	14.2	19.7	22.9	23.6	21.7	17.5	11.9	6.0	.9
Su	-2.7	-3.8	-1.4	4.2	10.5	15.9	19.4	20.8	19.7	16.6	12.4	8.3
28	5.2	4.0	5.5	9.9	15.4	19.8	22.0	22.1	20.0	16.0	10.8	5.7
M	1.3	-1.6	-2.3	.3	5.3	10.8	15.2	18.3	19.5	18.6	15.9	12.3
29	9.0	6.5	5.6	7.1	11.0	15.4	18.6	20.3	20.2	18.4	15.0	10.6
Tu	6.3	2.6	.1	-.5	1.8	5.9	10.4	14.1	16.9	18.3	17.9	15.7
30	12.8	10.1	7.9	6.9	7.9	10.9	14.2	16.7	18.1	18.4	17.2	14.6
W	11.1	7.5	4.4	1.9	1.1	2.7	5.9	9.5	12.9	15.9	17.6	17.7

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

NIKISHKA, ALASKA, 1986

Lat. 60° 41'N Long. 151° 24'W

MAY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 Th	16.1 14.8	13.7 12.1	11.2 9.1	9.0 6.1	7.5 3.5	7.8 2.2	9.9 3.1	12.3 5.6	14.4 8.7	16.1 12.1	17.0 15.4	16.6 17.6
2 F	18.1 16.8	16.8 15.6	14.7 13.3	12.1 10.5	9.4 7.4	7.3 4.3	6.8 2.6	8.1 3.0	10.1 5.2	12.3 8.3	14.7 12.1	16.4 15.9
3 Sa	18.3 16.6	18.8 17.4	17.6 16.4	15.3 14.3	12.3 11.4	8.9 7.9	6.1 4.4	5.1 2.5	6.0 2.9	8.2 5.2	11.0 8.8	14.2 13.1
4 Su	17.0 14.6	19.4 17.4	19.6 18.2	18.0 17.1	15.2 14.7	11.6 11.5	7.5 7.6	4.2 4.0	3.1 2.2	4.3 3.2	7.1 6.4	10.7 10.2
5 M	14.8 11.5	18.7 15.8	20.5 18.4	20.0 18.9	17.7 17.3	14.2 14.4	9.9 10.8	5.3 6.7	2.0 3.3	1.5 2.3	3.5 4.2	7.1 7.9
6 Tu	12.5 8.2	17.0 13.1	20.3 17.3	21.1 19.4	19.6 19.1	16.4 16.8	12.2 13.5	7.4 9.6	2.8 5.6	.1 2.9	.6 3.1	3.7 6.0
7 W	10.4 5.0	15.1 10.1	19.1 15.1	21.3 18.7	21.0 20.0	18.3 18.7	14.3 15.8	9.6 12.1	4.7 8.2	.5 4.7	-1.0 3.1	.8 4.6
8 Th	8.5 2.0	13.2 7.0	17.6 12.3	20.7 16.9	21.6 19.7	19.9 19.9	16.2 17.8	11.6 14.4	6.8 10.6	2.1 7.0	-1.1 4.3	-1.2 4.0
9 F	6.8 -.4	11.3 3.9	15.9 9.3	19.5 14.4	21.4 18.2	20.9 20.0	18.0 19.3	13.7 16.6	8.8 12.9	4.1 9.2	.2 6.2	-1.7 4.5
10 Sa	5.5 -1.5	9.3 1.2	14.0 6.1	18.0 11.4	20.5 15.9	21.1 18.8	19.4 19.7	15.8 18.2	11.0 15.1	6.3 11.5	2.1 8.2	-.9 5.9
11 Su	5.4 -1.0	7.5 -.4	11.7 3.2	16.1 8.2	19.2 13.0	20.6 16.6	20.0 18.7	17.5 18.8	13.4 16.9	8.7 13.8	4.4 10.4	.9 7.7
12 M	6.2 .6	6.6 -.4	9.4 1.2	13.7 5.1	17.4 9.9	19.4 13.8	19.8 16.6	18.5 18.0	15.5 17.7	11.3 15.7	7.0 12.7	3.2 9.8
13 Tu	7.7 2.9	6.9 1.0	8.0 .7	11.0 2.8	14.9 6.7	17.7 10.8	18.8 14.0	18.5 16.2	16.8 17.2	13.7 16.7	9.8 14.7	5.9 12.0
14 W	9.6 5.6	8.1 3.2	7.8 1.8	9.1 2.0	12.0 4.1	15.2 7.7	17.2 11.2	17.6 13.8	17.0 15.6	15.3 16.4	12.4 16.0	8.9 14.2
15 Th	11.8 8.7	9.8 5.9	8.6 3.9	8.4 2.7	9.6 3.0	12.2 5.0	14.7 8.2	16.0 11.2	16.3 13.4	15.8 15.2	14.3 16.1	11.8 15.7
16 F	14.0 11.8	11.8 9.0	10.0 6.5	8.8 4.6	8.4 3.4	9.4 3.6	11.6 5.5	13.6 8.4	14.7 11.1	15.2 13.5	15.1 15.4	14.0 16.4
17 Sa	15.9 14.3	14.2 12.3	11.9 9.6	10.0 7.1	8.5 5.1	7.7 3.7	8.4 3.8	10.3 5.7	12.2 8.6	13.6 11.5	14.7 14.2	15.1 16.3
18 Su	17.2 15.8	16.5 15.2	14.3 13.1	11.8 10.3	9.4 7.5	7.4 5.2	6.2 3.6	6.7 3.7	8.7 5.9	11.0 9.2	13.1 12.6	14.9 15.6
19 M	17.8 15.9	18.4 17.1	17.0 16.3	14.2 13.9	11.0 10.7	8.0 7.6	5.4 5.0	4.0 3.2	4.7 3.6	7.3 6.4	10.4 10.4	13.4 14.3
20 Tu	17.6 14.5	19.6 17.4	19.4 18.5	17.2 17.4	13.6 14.5	9.7 9.8	6.0 7.3	2.9 4.4	1.5 2.8	2.9 3.8	6.4 7.5	10.5 12.3
21 W	16.7 11.4	19.9 16.0	21.3 19.1	20.2 19.9	16.8 18.2	12.3 14.7	7.7 10.6	3.4 6.8	.1 3.7	-.7 2.6	1.6 4.6	6.2 9.2
22 Th	14.6 6.8	19.2 12.8	22.0 17.7	22.5 20.6	20.3 20.8	15.9 18.5	10.6 14.5	5.4 10.1	.8 6.1	-2.3 3.3	-2.4 2.8	1.1 5.8
23 F	11.2 1.5	17.0 8.0	21.4 14.3	23.6 19.1	23.0 21.6	19.8 21.2	14.6 18.4	8.7 14.0	3.2 9.5	-1.5 5.6	-4.1 3.1	-3.1 3.5
24 Sa	7.4 -3.0	13.3 2.5	19.0 9.3	22.9 15.5	24.3 20.0	22.8 22.0	18.8 21.1	13.1 17.9	7.0 13.4	1.4 8.9	-3.0 5.2	-4.9 3.3
25 Su	4.4 -4.8	9.0 -2.0	15.1 3.8	20.3 10.6	23.5 16.3	24.1 20.3	22.0 21.8	17.5 20.6	11.7 17.2	5.6 12.8	.3 8.6	-3.7 5.2
26 M	3.8 -3.4	5.5 -3.9	10.4 -.6	16.1 5.3	20.7 11.5	23.1 16.6	23.2 20.0	20.7 21.2	16.2 19.8	10.6 16.5	4.9 12.4	.0 8.5
27 Tu	5.5 .4	4.5 -2.4	6.5 -2.4	11.2 1.0	16.3 6.4	20.1 11.9	22.0 16.4	21.8 19.5	19.4 20.4	15.1 19.1	9.9 16.0	4.8 12.2
28 W	8.6 5.3	6.0 1.5	5.2 -.9	7.2 -.6	11.4 2.6	15.6 7.3	18.7 12.0	20.3 16.0	20.1 18.8	18.1 19.7	14.3 18.6	9.8 15.8
29 Th	12.3 10.1	9.0 6.3	6.5 2.9	5.7 .8	7.4 1.1	10.8 3.8	14.2 7.8	16.8 11.9	18.4 15.6	18.6 18.3	17.0 19.3	13.9 18.3
30 F	15.8 13.9	12.6 10.7	9.5 7.4	6.9 4.4	5.8 2.4	6.9 2.5	9.5 4.8	12.3 8.2	14.8 11.8	16.7 15.4	17.4 18.2	16.4 19.2
31 Sa	18.3 16.2	15.9 14.2	12.9 11.5	9.7 8.6	6.8 5.7	5.3 3.7	5.9 3.6	7.9 5.5	10.4 8.5	13.0 12.0	15.4 15.6	16.7 18.4

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

NIKISHKA, ALASKA, 1986

41

Lat. 60° 41' N Long. 151° 24' W

JUNE

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 Su	19.4 16.5	18.4 16.4	16.0 14.7	12.9 12.3	9.5 9.6	6.2 6.6	4.3 4.5	4.5 4.3	6.3 6.2	8.9 9.1	12.0 12.7	14.9 16.4
2 M	19.0 15.1	19.7 16.9	18.4 16.8	15.8 15.2	12.5 12.8	8.7 10.0	5.0 7.0	2.9 4.9	3.1 5.0	5.1 7.0	8.1 10.2	11.8 12.0
3 Tu	17.5 12.4	19.7 15.9	19.8 17.6	18.0 17.2	15.0 15.5	11.4 13.0	7.2 10.0	3.3 7.0	1.4 5.2	2.1 5.8	4.6 8.2	8.3 11.7
4 W	15.4 9.3	18.7 13.8	20.2 17.1	19.6 18.3	17.1 17.5	13.7 15.3	9.6 12.6	5.2 9.6	1.6 6.7	.3 5.5	1.7 6.8	5.0 9.9
5 Th	13.5 6.3	17.1 11.0	19.7 15.4	20.4 18.2	18.8 18.8	15.7 17.3	11.8 14.8	7.5 11.9	3.1 8.8	.0 6.4	-.3 6.1	2.2 8.3
6 F	11.8 3.5	15.5 8.2	18.6 13.0	20.3 16.9	19.9 19.0	17.5 18.8	13.8 16.8	9.5 13.9	5.2 10.8	1.2 8.0	-1.0 6.2	.0 6.9
7 Sa	10.0 1.0	13.8 5.3	17.3 10.3	19.7 14.8	20.4 18.1	19.0 19.4	15.8 18.4	11.6 15.8	7.2 12.7	3.0 9.7	-.3 7.2	-1.3 6.3
8 Su	8.1 -.8	11.8 2.5	15.7 7.4	18.7 12.2	20.2 16.3	19.9 18.8	17.6 19.2	13.8 17.6	9.4 14.7	5.1 11.5	1.3 8.6	-1.2 6.7
9 M	6.8 -1.3	9.4 .2	13.5 4.4	17.1 9.4	19.4 13.9	20.1 17.2	19.0 19.0	16.0 18.7	11.9 16.6	7.4 13.4	3.3 10.3	.1 7.7
10 Tu	6.5 -.4	7.4 -.8	10.8 1.7	14.9 6.3	18.0 11.1	19.5 15.0	19.5 17.7	17.7 18.7	14.4 17.9	10.1 15.4	5.7 12.2	2.1 9.2
11 W	7.2 1.4	6.5 -.3	8.2 .2	11.9 3.4	15.7 8.1	18.2 12.5	19.1 15.7	18.5 17.8	16.4 18.3	12.8 17.0	8.5 14.3	4.5 11.1
12 Th	8.5 3.8	6.8 1.3	6.8 .3	8.9 1.5	12.6 5.1	15.9 9.6	17.8 13.5	18.3 16.2	17.4 17.7	15.1 17.8	11.5 16.2	7.4 13.4
13 F	10.3 6.9	7.9 3.7	6.6 1.8	6.9 1.3	9.2 3.0	12.7 6.6	15.5 10.8	17.0 14.2	17.3 16.5	16.4 17.7	14.1 17.5	10.6 15.6
14 Sa	12.7 10.3	9.7 6.9	7.5 4.2	6.4 2.6	6.8 2.5	9.0 4.3	12.2 8.0	14.6 11.8	16.0 14.8	16.3 16.9	15.6 17.9	13.5 17.4
15 Su	15.2 13.5	12.2 10.5	9.2 7.3	7.1 5.0	5.9 3.6	6.1 3.6	8.2 5.5	11.1 9.1	13.5 12.7	15.1 15.6	15.8 17.5	15.4 18.3
16 M	17.5 15.7	15.0 13.9	11.7 11.1	8.7 8.2	6.3 5.9	4.9 4.5	4.9 4.5	6.9 6.5	9.8 10.0	12.5 13.6	14.5 16.5	15.8 18.5
17 Tu	19.1 16.4	17.7 16.5	14.8 14.8	11.2 12.0	7.9 9.1	5.2 6.8	3.3 5.2	3.3 5.1	5.4 7.2	8.6 10.9	11.8 14.7	14.6 17.8
18 W	19.8 15.3	19.9 17.4	18.1 17.6	14.6 15.8	10.6 12.9	6.8 9.9	3.6 7.3	1.4 5.5	1.4 5.4	3.9 7.8	7.8 11.9	11.8 16.1
19 Th	19.3 12.4	21.1 16.4	20.8 18.8	18.3 16.8	14.2 16.8	9.7 13.6	5.4 10.3	1.6 7.4	-.7 5.4	-.4 5.5	2.9 8.5	7.6 13.1
20 F	17.5 8.0	20.8 13.4	22.3 17.8	21.4 20.1	18.2 19.8	13.6 17.4	8.5 13.9	3.7 10.3	-.4 7.0	-2.6 5.0	-1.6 5.6	2.5 9.2
21 Sa	14.3 2.8	19.0 9.0	22.2 14.7	23.2 19.1	21.7 21.1	17.9 20.4	12.7 17.6	7.3 13.7	2.1 9.8	-2.1 6.4	-4.0 4.5	-2.1 5.7
22 Su	9.9 -1.9	15.4 3.8	20.1 10.3	23.1 16.1	23.7 20.1	21.6 21.7	17.3 20.5	11.8 17.4	6.0 13.2	.7 9.1	-3.4 5.6	-4.6 4.1
23 M	5.9 -4.4	10.7 -.9	16.3 5.2	20.8 11.7	23.4 17.2	23.5 20.8	21.0 21.9	16.4 20.3	10.8 16.8	4.9 12.4	-.3 8.2	-4.0 4.9
24 Tu	3.8 -3.9	6.3 -3.5	11.3 .7	16.7 6.8	20.9 13.0	23.1 18.0	22.9 21.1	20.1 21.7	15.4 19.7	9.8 16.0	4.1 11.6	-.8 7.4
25 W	4.3 -.7	3.8 -3.0	6.7 -1.9	11.7 2.6	16.7 8.5	20.4 14.0	22.2 18.5	21.7 21.1	18.9 21.2	14.4 19.0	8.9 15.1	3.7 10.8
26 Th	6.8 3.7	4.1 .1	4.0 -1.5	7.0 .2	11.6 4.6	16.0 9.9	19.2 14.8	20.8 18.7	20.3 20.8	17.6 20.6	13.3 18.1	8.4 14.3
27 F	10.2 8.2	6.6 4.3	4.2 1.4	4.3 .4	7.1 2.4	11.2 6.5	14.9 11.1	17.7 15.3	19.2 18.6	18.8 20.3	16.3 19.8	12.5 17.3
28 Sa	13.7 12.1	9.9 8.5	6.5 5.4	4.3 3.1	4.4 2.5	6.9 4.5	10.3 8.1	13.4 11.9	16.0 15.5	17.5 18.4	17.4 19.8	15.3 19.1
29 Su	16.6 14.8	13.3 12.1	9.8 9.3	6.6 6.8	4.5 4.9	4.4 4.5	6.3 6.3	9.0 9.3	11.8 12.5	14.4 15.6	16.2 18.2	16.3 19.3
30 M	18.5 15.9	16.1 14.7	13.0 12.6	9.7 10.4	6.6 8.3	4.3 6.5	3.9 6.1	5.4 7.6	7.7 10.1	10.5 12.9	13.3 15.7	15.4 18.1

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

NIKISHKA, ALASKA, 1986

Lat. 60° 41'N Long. 151° 24'W

JULY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	19.0	18.0	15.7	12.7	9.5	6.2	3.7	3.2	4.4	6.7	9.7	12.9
Tu	15.3	16.0	15.1	13.4	11.5	9.4	7.6	7.2	8.4	10.7	13.3	16.1
2	18.2	18.8	17.6	15.2	12.2	8.9	5.4	2.8	2.2	3.6	6.2	9.6
W	13.2	15.8	16.5	15.7	14.2	12.3	10.1	8.2	7.7	9.1	11.3	14.0
3	16.7	18.5	18.7	17.2	14.6	11.4	7.8	4.1	1.6	1.4	3.3	6.5
Th	10.4	14.2	16.7	17.3	16.3	14.6	12.5	10.1	8.2	8.0	9.6	12.2
4	15.0	17.5	18.9	18.6	16.6	13.6	10.1	6.2	2.5	.4	1.0	3.6
F	7.5	11.8	15.6	17.7	17.9	16.5	14.5	12.1	9.4	7.8	8.2	10.4
5	13.3	16.2	18.4	19.3	18.3	15.7	12.2	8.4	4.3	.8	-.4	1.2
Sa	4.7	9.1	13.5	17.0	18.6	18.1	16.2	13.8	11.0	8.4	7.3	8.5
6	11.4	14.7	17.5	19.3	19.4	17.6	14.4	10.5	6.4	2.3	-.6	-.7
Su	2.1	6.4	11.1	15.4	18.3	19.1	17.9	15.4	12.5	9.5	7.2	6.9
7	9.2	12.7	16.1	18.7	19.9	19.2	16.7	12.8	8.5	4.2	.4	-1.5
M	-.2	3.6	8.5	13.2	17.1	19.2	19.1	17.1	14.1	10.8	7.9	6.2
8	6.9	10.1	14.1	17.5	19.6	20.1	18.6	15.3	10.9	6.3	2.2	-1.0
Tu	-1.7	.9	5.7	10.8	15.2	18.4	19.6	18.6	15.9	12.4	9.0	6.4
9	5.5	7.3	11.3	15.5	18.5	20.0	19.8	17.5	13.6	8.9	4.3	.5
W	-1.7	-1.0	2.7	8.1	13.1	16.9	19.3	19.5	17.7	14.4	10.6	7.3
10	5.2	5.2	7.9	12.4	16.5	19.0	19.9	19.0	16.2	11.9	7.0	2.7
Th	-.4	-1.5	.4	5.0	10.5	15.1	18.2	19.6	19.1	16.5	12.7	8.9
11	6.0	4.4	5.3	8.7	13.2	16.9	19.0	19.3	17.9	14.7	10.2	5.6
F	1.8	-.5	-.5	2.4	7.5	12.7	16.6	19.0	19.6	18.2	15.1	11.2
12	7.5	5.0	4.1	5.5	9.3	13.6	16.8	18.4	18.4	16.7	13.3	9.0
Sa	4.8	1.7	.4	1.2	4.7	9.8	14.5	17.7	19.3	19.2	17.3	13.9
13	9.9	6.5	4.4	4.0	5.7	9.4	13.4	16.1	17.4	17.3	15.6	12.4
Su	8.4	4.9	2.6	1.9	3.3	7.0	11.8	15.8	18.3	19.3	18.8	16.4
14	12.8	9.0	6.0	4.2	3.8	5.6	9.0	12.5	15.0	16.3	16.4	15.0
M	12.1	8.7	5.8	4.1	3.8	5.4	8.9	13.2	16.6	18.6	19.3	18.4
15	15.9	12.2	8.6	5.7	3.9	3.4	4.9	8.0	11.2	13.7	15.4	16.0
Tu	15.0	12.5	9.6	7.2	5.8	5.5	6.9	10.2	14.0	16.9	18.8	19.4
16	18.3	15.7	12.0	8.4	5.5	3.4	2.5	3.7	6.6	9.9	12.8	15.1
W	16.2	15.6	13.5	11.0	8.8	7.3	6.7	7.8	10.8	14.3	17.2	19.1
17	19.7	18.6	15.8	12.1	8.4	5.2	2.5	1.1	2.1	5.1	8.8	12.4
Th	15.4	17.0	16.7	14.9	12.4	10.1	8.2	7.2	8.0	10.8	14.4	17.6
18	19.7	20.5	19.2	16.3	12.3	8.3	4.5	1.1	-.5	.6	4.0	8.3
F	12.7	16.3	18.2	18.0	16.1	13.5	10.8	8.3	6.8	7.6	10.7	14.6
19	18.2	20.7	21.4	20.0	16.7	12.4	7.8	3.3	-.5	-2.2	-.6	3.6
Sa	8.7	13.8	17.7	19.6	19.2	16.9	13.9	10.6	7.5	5.8	6.9	10.5
20	15.0	19.0	21.7	22.3	20.6	16.8	12.1	7.0	1.9	-2.1	-3.4	-1.0
Su	3.9	9.8	15.3	19.3	20.9	20.0	17.2	13.5	9.6	6.1	4.6	6.3
21	10.6	15.6	19.9	22.6	23.0	20.8	16.6	11.3	5.7	.4	-3.5	-3.9
M	-.6	5.2	11.5	17.0	20.7	21.8	20.2	16.7	12.5	8.1	4.6	3.5
22	6.0	11.0	16.3	20.7	23.2	23.1	20.4	15.8	10.1	4.3	-.9	-4.2
Tu	-3.6	.8	7.1	13.5	18.7	21.8	22.1	19.7	15.7	11.0	6.4	3.1
23	2.8	6.1	11.5	16.9	21.1	23.2	22.6	19.5	14.5	8.7	3.0	-1.8
W	-4.0	-2.2	2.9	9.4	15.5	20.1	22.4	21.8	18.8	14.3	9.3	4.9
24	2.1	2.6	6.6	12.1	17.3	21.0	22.6	21.5	18.1	13.0	7.3	2.1
Th	-1.8	-2.8	.0	5.5	11.7	17.1	20.9	22.3	21.0	17.4	12.7	7.8
25	3.8	1.7	3.0	7.2	12.5	17.1	20.2	21.3	20.0	16.3	11.4	6.3
F	1.9	-.9	-.8	2.7	8.2	13.7	18.2	21.1	21.7	19.7	15.8	11.2
26	6.8	3.3	2.0	3.7	7.8	12.5	16.4	18.9	19.7	18.1	14.7	10.2
Sa	6.0	2.6	.8	1.8	5.6	10.6	15.1	18.7	20.7	20.5	18.2	14.4
27	10.1	6.3	3.5	2.6	4.5	8.2	12.0	15.1	17.3	17.9	16.4	13.4
Su	9.7	6.4	4.1	3.2	4.6	8.2	12.3	15.8	18.4	19.7	19.2	16.8
28	13.2	9.5	6.3	4.0	3.4	5.0	8.0	11.0	13.7	15.6	16.3	15.2
M	12.8	10.0	7.7	6.1	5.6	7.1	10.0	13.2	15.7	17.7	18.6	17.9
29	15.7	12.6	9.5	6.8	4.6	3.9	5.1	7.3	9.8	12.2	14.3	15.3
Tu	14.7	12.9	11.0	9.4	8.2	7.8	8.9	11.1	13.3	15.3	16.9	17.7
30	17.0	15.0	12.4	9.8	7.2	4.9	3.9	4.6	6.3	8.5	11.2	13.6
W	15.0	14.9	13.7	12.3	11.0	9.8	9.1	9.7	11.3	13.0	14.7	16.4
31	17.2	16.6	14.8	12.5	10.0	7.3	4.7	3.3	3.7	5.3	7.8	10.8
Th	13.7	15.5	15.6	14.8	13.6	12.2	10.6	9.5	9.8	11.1	12.7	14.6

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

AUGUST

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	16.3	17.2	16.7	14.9	12.6	9.9	6.7	3.7	2.2	2.8	4.7	7.7
F	11.3	14.6	16.4	16.6	15.7	14.3	12.4	10.3	9.0	9.4	10.8	12.8
2	15.0	16.9	17.7	17.0	14.9	12.2	9.1	5.4	2.2	1.1	2.2	4.9
Sa	8.6	12.7	16.0	17.6	17.4	16.1	14.1	11.7	9.2	8.1	8.9	11.0
3	13.5	16.0	17.9	18.4	17.1	14.5	11.3	7.5	3.5	.5	.2	2.3
Su	5.9	10.3	14.5	17.6	18.6	17.7	15.7	13.1	10.1	7.6	7.0	8.7
4	11.6	14.7	17.4	19.1	18.9	16.9	13.5	9.6	5.3	1.3	-.9	.0
M	3.3	7.9	12.6	16.6	19.0	19.1	17.3	14.4	11.2	7.9	5.9	6.3
5	9.2	12.9	16.4	19.0	20.0	19.0	16.0	11.8	7.3	2.8	-.7	-1.7
Tu	.7	5.3	10.4	15.2	18.6	19.9	18.9	16.1	12.4	8.8	5.7	4.5
6	6.2	10.2	14.6	18.1	20.3	20.4	18.4	14.5	9.6	4.7	.5	-2.1
W	-1.4	2.5	8.0	13.3	17.6	20.1	20.2	17.9	14.2	10.0	6.3	3.7
7	3.7	6.8	11.7	16.3	19.5	21.0	20.2	17.1	12.5	7.2	2.4	-1.2
Th	-2.4	-.1	5.2	11.1	16.2	19.6	20.9	19.7	16.4	12.0	7.6	4.1
8	2.4	3.6	7.8	13.2	17.6	20.3	20.9	19.3	15.5	10.3	5.1	.8
F	-1.8	-1.5	2.3	8.3	14.2	18.5	20.8	20.9	18.6	14.4	9.6	5.4
9	2.5	1.8	4.1	9.0	14.4	18.4	20.3	20.2	17.9	13.6	8.4	3.6
Sa	.2	-1.1	.5	5.2	11.4	16.7	20.0	21.2	20.1	17.0	12.4	7.6
10	3.8	1.7	1.8	4.9	10.1	15.0	18.3	19.6	19.0	16.3	12.0	7.2
Su	3.2	.8	.6	3.2	8.3	14.1	18.4	20.6	20.8	19.0	15.3	10.7
11	6.3	3.1	1.6	2.3	5.7	10.5	14.8	17.4	18.4	17.6	15.0	11.1
M	7.0	3.9	2.4	3.0	6.0	10.9	15.8	19.1	20.4	20.0	17.7	14.0
12	9.6	5.7	3.1	2.0	2.9	6.0	10.2	13.8	16.0	16.9	16.4	14.2
Tu	11.0	7.7	5.5	4.7	5.5	8.3	12.6	16.5	18.9	19.7	19.0	16.8
13	13.3	9.3	5.9	3.6	2.5	3.1	5.6	9.1	12.2	14.4	15.7	15.7
W	14.2	11.7	9.3	7.6	6.9	7.4	9.7	13.2	16.3	18.2	19.0	18.5
14	16.5	13.3	9.8	6.7	4.3	2.7	2.6	4.6	7.6	10.5	13.2	15.2
Th	15.9	15.0	13.2	11.1	9.6	8.5	8.4	10.0	12.8	15.5	17.5	18.6
15	18.5	16.9	14.0	10.7	7.6	4.7	2.3	1.5	3.0	5.9	9.3	12.7
F	15.4	16.8	16.4	14.8	12.8	10.8	9.0	8.2	9.3	11.8	14.7	17.1
16	18.8	19.2	17.9	15.1	11.7	8.1	4.4	1.2	.0	1.5	4.8	8.9
Sa	13.1	16.6	18.2	17.9	16.2	13.8	11.0	8.4	7.0	7.9	10.8	14.2
17	17.4	19.7	20.4	19.0	16.1	12.2	7.9	3.3	-.4	-1.5	.4	4.5
Su	9.5	14.5	18.2	19.8	19.1	16.8	13.7	10.1	6.7	5.2	6.6	10.1
18	14.3	18.2	21.0	21.6	19.9	16.5	11.9	6.9	1.7	-2.1	-2.6	.4
M	5.4	11.2	16.5	20.1	21.2	19.7	16.6	12.6	8.2	4.5	3.4	5.6
19	10.0	15.0	19.4	22.2	22.5	20.2	16.1	10.9	5.2	-.1	-3.3	-2.7
Tu	1.4	7.3	13.6	18.8	21.8	21.9	19.4	15.4	10.7	5.9	2.4	2.1
20	5.4	10.7	16.2	20.6	23.1	22.7	19.7	14.8	9.2	3.4	-1.5	-3.6
W	-1.6	3.6	10.1	16.2	20.8	22.8	21.8	18.3	13.5	8.3	3.5	.7
21	1.6	5.9	11.8	17.3	21.5	23.2	22.0	18.3	13.0	7.2	1.7	-2.2
Th	-2.8	.6	6.6	13.1	18.6	22.2	22.9	20.8	16.5	11.2	6.0	1.7
22	-.1	1.9	7.0	13.0	18.2	21.7	22.6	20.6	16.4	10.9	5.5	.8
F	-1.8	-.9	3.6	9.8	15.8	20.3	22.6	22.2	19.1	14.2	8.9	4.1
23	.7	.1	3.0	8.4	14.0	18.4	21.0	21.2	18.7	14.3	9.2	4.5
Sa	1.0	-.2	1.9	7.0	12.8	17.7	21.0	22.1	20.6	16.9	12.0	7.1
24	3.1	.6	1.0	4.5	9.6	14.4	18.0	19.8	19.3	16.6	12.5	8.1
Su	4.4	2.2	2.2	5.1	10.1	15.0	18.6	20.6	20.7	18.6	14.8	10.2
25	6.1	3.0	1.4	2.4	5.9	10.3	14.1	16.8	18.0	17.4	14.9	11.3
M	7.9	5.4	4.3	5.1	8.2	12.4	16.0	18.4	19.4	18.9	16.6	13.0
26	9.2	6.0	3.7	2.7	3.9	6.9	10.3	13.1	15.2	16.3	15.8	13.8
Tu	11.1	8.7	7.2	6.8	7.8	10.5	13.6	15.9	17.3	17.8	17.1	15.0
27	12.0	9.0	6.6	4.8	4.0	4.8	7.0	9.5	11.6	13.6	14.8	14.8
W	13.5	11.7	10.2	9.3	9.0	9.7	11.6	13.7	15.0	15.9	16.3	15.8
28	14.2	11.9	9.6	7.6	5.8	4.7	5.0	6.4	8.2	10.2	12.4	14.1
Th	14.7	14.0	12.9	11.9	11.1	10.4	10.5	11.6	12.9	13.8	14.7	15.4
29	15.4	14.2	12.4	10.4	8.5	6.3	4.6	4.3	5.3	6.9	9.2	12.0
F	14.3	15.3	15.1	14.3	13.3	12.0	10.7	10.2	10.8	11.8	12.9	14.2
30	15.5	15.8	14.9	13.2	11.1	8.6	5.8	3.6	3.1	4.1	6.2	9.2
Sa	12.6	15.3	16.5	16.2	15.2	13.7	11.7	9.8	9.0	9.6	10.9	12.7
31	14.7	16.3	16.7	15.7	13.6	11.0	7.8	4.4	2.0	1.9	3.5	6.5
Su	10.3	14.1	16.8	17.7	17.0	15.3	13.0	10.3	8.0	7.4	8.7	10.8

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

NIKISHKA, ALASKA, 1986

Lat. 60° 41' N Long. 151° 24' W

SEPTEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	13.4	16.0	17.7	17.8	16.2	13.4	10.0	6.1	2.3	.4	1.2	4.0
M	7.9	12.4	16.3	18.5	18.6	16.9	14.3	11.2	7.9	5.8	6.1	8.5
2	11.7	15.0	17.9	19.2	18.5	15.9	12.2	8.0	3.6	.2	-.7	1.5
Tu	5.6	10.4	15.1	18.5	19.7	18.6	15.8	12.3	8.5	5.2	3.9	5.5
3	9.2	13.4	17.1	19.7	20.3	18.5	14.8	10.2	5.4	1.1	-1.5	-.7
W	3.1	8.4	13.6	18.0	20.4	20.2	17.8	13.8	9.5	5.4	2.6	2.6
4	5.8	10.7	15.5	19.2	21.1	20.6	17.6	12.9	7.7	2.8	-.9	-2.1
Th	.5	5.8	11.8	17.0	20.4	21.5	19.8	16.0	11.2	6.4	2.6	.7
5	2.2	6.9	12.6	17.6	20.8	21.8	20.1	16.0	10.7	5.3	.8	-1.9
F	-1.3	2.9	9.3	15.4	19.8	22.0	21.5	18.5	13.6	8.3	3.6	.4
6	-.2	2.7	8.5	14.5	19.1	21.6	21.5	18.8	14.1	8.5	3.4	-.3
Sa	-1.6	.6	6.2	12.9	18.4	21.7	22.5	20.6	16.5	11.0	5.7	1.4
7	-.9	-.2	3.9	10.1	15.9	19.8	21.4	20.5	17.2	12.2	6.9	2.5
Su	.0	.0	3.5	9.6	16.0	20.4	22.5	22.0	19.1	14.3	8.7	3.8
8	.3	-1.0	.6	5.3	11.3	16.4	19.5	20.4	19.0	15.6	10.9	6.2
M	2.8	1.4	2.5	6.6	12.6	18.0	21.2	22.1	20.7	17.2	12.4	7.2
9	2.9	.3	-.3	1.8	6.4	11.8	16.0	18.3	18.9	17.5	14.3	10.3
Tu	6.6	4.3	3.6	5.3	9.4	14.6	18.7	20.8	20.8	19.1	15.6	11.2
10	6.7	3.2	1.2	.8	2.8	6.9	11.3	14.6	16.6	17.2	16.3	13.8
W	10.7	8.0	6.4	6.1	7.6	11.1	15.2	18.2	19.5	19.3	17.7	14.8
11	11.0	7.3	4.4	2.5	1.9	3.3	6.5	10.0	12.8	14.9	16.0	15.8
Th	14.2	11.9	9.9	8.6	8.1	9.0	11.5	14.6	16.8	17.9	18.1	17.1
12	14.8	11.8	8.6	6.0	3.8	2.5	3.0	5.3	8.2	11.0	13.7	15.6
F	16.2	15.3	13.6	11.8	10.3	9.1	9.1	10.7	13.0	15.0	16.6	17.5
13	17.3	15.8	13.2	10.3	7.4	4.4	2.2	2.0	3.8	6.6	9.9	13.4
Sa	16.2	17.3	16.8	15.2	13.2	10.9	8.7	7.9	9.0	11.2	13.6	16.0
14	17.9	18.4	17.2	14.7	11.6	8.0	4.2	1.2	.6	2.4	5.8	10.0
Su	14.3	17.6	18.9	18.2	16.3	13.5	10.2	7.2	5.9	7.0	9.7	13.0
15	16.4	19.0	19.8	18.6	15.8	12.1	7.7	3.0	-.2	-.6	1.9	6.1
M	11.3	16.2	19.5	20.4	19.1	16.4	12.7	8.4	4.8	3.6	5.4	9.0
16	13.4	17.6	20.5	21.1	19.4	16.0	11.5	6.3	1.4	-1.6	-1.0	2.6
Tu	7.8	13.6	18.5	21.3	21.4	19.1	15.3	10.6	5.8	2.2	1.8	4.6
17	9.4	14.6	19.2	21.9	21.9	19.3	15.1	10.0	4.5	-.3	-2.2	-.2
W	4.6	10.6	16.5	20.9	22.6	21.4	17.9	13.2	7.9	2.9	.1	.9
18	5.0	10.6	16.3	20.7	22.7	21.7	18.3	13.4	7.9	2.6	-1.3	-1.7
Th	1.8	7.6	13.9	19.3	22.6	22.9	20.4	15.9	10.5	5.0	.5	-1.1
19	1.1	6.3	12.4	18.0	21.7	22.7	20.7	16.5	11.2	5.9	1.2	-1.2
F	.1	4.9	11.1	17.0	21.4	23.2	22.1	18.4	13.2	7.6	2.5	-1.0
20	-1.2	2.4	8.2	14.3	19.1	21.9	21.8	19.0	14.3	9.1	4.4	.9
Sa	.0	2.9	8.4	14.4	19.3	22.3	22.7	20.3	15.8	10.4	5.1	.9
21	-1.3	-.2	4.3	10.2	15.6	19.5	21.2	20.3	16.9	12.3	7.6	3.8
Su	1.7	2.3	6.2	11.8	16.9	20.5	22.0	21.1	17.9	13.1	8.0	3.5
22	.4	-.6	1.6	6.4	11.8	16.2	19.1	19.9	18.4	14.9	10.7	7.0
M	4.4	3.5	5.2	9.4	14.4	18.2	20.4	20.7	18.9	15.4	10.8	6.4
23	3.0	.9	.9	3.6	8.1	12.5	15.9	17.8	18.1	16.5	13.4	10.0
Tu	7.3	5.8	5.8	8.0	11.9	15.8	18.3	19.2	18.7	16.7	13.3	9.4
24	5.9	3.5	2.2	2.7	5.3	9.0	12.3	14.7	16.2	16.4	15.1	12.7
W	10.2	8.5	7.8	8.2	10.3	13.4	15.9	17.2	17.4	16.6	14.8	12.0
25	8.9	6.4	4.7	3.8	4.2	6.3	9.0	11.3	13.2	14.6	15.2	14.4
Th	12.8	11.2	10.1	9.7	10.0	11.5	13.5	15.0	15.5	15.6	15.1	13.8
26	11.7	9.4	7.6	6.1	5.0	5.0	6.3	8.1	9.9	11.8	13.6	14.7
F	14.6	13.6	12.5	11.7	11.0	10.7	11.4	12.6	13.4	13.9	14.3	14.5
27	13.8	12.3	10.5	8.8	7.0	5.4	4.8	5.5	6.9	8.7	11.1	13.5
Sa	15.1	15.4	14.7	13.6	12.5	11.2	10.2	10.3	11.1	11.9	12.9	14.0
28	14.8	14.6	13.3	11.5	9.5	7.1	4.8	3.8	4.3	6.0	8.3	11.4
Su	14.4	16.3	16.5	15.6	14.1	12.3	10.1	8.6	8.6	9.6	11.0	12.9
29	14.8	16.0	15.8	14.3	12.0	9.3	6.2	3.4	2.4	3.5	5.9	9.1
M	12.9	16.1	17.7	17.5	15.8	13.6	10.8	8.0	6.4	6.8	8.7	11.2
30	14.0	16.5	17.6	16.9	14.7	11.6	8.1	4.4	1.6	1.3	3.5	7.0
Tu	11.2	15.3	18.2	19.1	17.7	15.1	11.8	8.2	5.2	4.1	5.7	8.8

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

Lat. 60° 41' N Long. 151° 24' W

OCTOBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	12.4	15.9	18.5	19.1	17.5	14.2	10.2	6.0	2.2	.1	1.2	4.7
W	9.4	14.2	18.2	20.2	19.7	17.1	13.2	9.1	5.0	2.3	2.4	5.4
2	9.9	14.5	18.3	20.3	19.9	17.2	12.9	8.2	3.7	.3	-.5	2.2
Th	7.2	12.7	17.6	20.7	21.4	19.3	15.3	10.5	5.8	1.8	.0	1.6
3	6.2	11.8	16.8	20.4	21.5	20.0	16.1	11.0	5.9	1.6	-.8	.1
F	4.5	10.6	16.4	20.6	22.5	21.6	18.0	12.8	7.4	2.5	-.9	-1.4
4	1.9	7.8	14.0	19.0	21.8	21.9	19.2	14.5	9.0	4.0	.4	-.7
Sa	1.8	7.6	14.3	19.7	22.8	23.2	20.7	15.9	10.0	4.3	-.2	-2.6
5	-1.6	3.1	9.7	16.0	20.4	22.3	21.4	17.9	12.7	7.3	2.9	.2
Su	.5	4.5	11.1	17.5	22.0	23.8	22.7	19.0	13.5	7.4	2.0	-1.8
6	-3.1	-.9	4.7	11.5	17.2	20.8	21.9	20.3	16.4	11.3	6.3	2.7
M	1.2	2.7	7.6	14.1	19.7	22.9	23.5	21.3	17.0	11.3	5.5	.8
7	-2.2	-2.6	.5	6.3	12.6	17.5	20.3	20.7	18.8	15.0	10.4	6.3
Tu	3.6	3.0	5.2	10.3	16.2	20.6	22.6	22.2	19.5	15.1	9.7	4.6
8	.7	-1.4	-1.2	2.0	7.4	12.8	16.8	18.9	19.2	17.5	14.2	10.4
W	7.2	5.3	5.2	7.6	12.1	16.9	20.1	21.2	20.4	17.8	13.8	9.2
9	5.0	1.8	.1	.3	3.2	7.7	12.1	15.3	17.3	17.8	16.6	14.1
Th	11.1	8.7	7.2	7.2	9.1	12.7	16.3	18.5	19.2	18.6	16.6	13.5
10	9.7	6.3	3.6	1.8	1.7	3.8	7.2	10.7	13.6	15.8	16.9	16.4
F	14.7	12.5	10.5	8.9	8.4	9.4	12.0	14.6	16.3	17.3	17.4	16.3
11	14.0	11.1	8.1	5.5	3.2	2.3	3.5	6.1	9.1	12.2	15.0	16.8
Sa	17.1	15.9	14.0	11.9	9.9	8.4	8.5	10.2	12.3	14.2	15.9	17.0
12	16.8	15.2	12.8	9.9	6.9	3.9	2.2	2.7	4.9	8.0	11.7	15.2
Su	17.7	18.3	17.2	15.2	12.6	9.7	7.3	6.7	7.9	10.1	12.8	15.5
13	17.5	18.0	16.7	14.3	11.1	7.4	3.7	1.5	1.8	4.2	7.9	12.3
M	16.5	19.1	19.6	18.2	15.6	12.2	8.3	5.2	4.3	5.8	8.7	12.4
14	16.1	18.7	19.3	17.9	15.1	11.4	6.9	2.7	.6	1.4	4.5	9.0
Tu	14.1	18.5	20.8	20.6	18.4	15.0	10.6	5.9	2.6	2.2	4.5	8.4
15	13.1	17.4	20.1	20.3	18.4	14.9	10.6	5.7	1.6	.1	1.9	6.0
W	11.3	16.6	20.6	22.0	20.8	17.6	13.2	8.0	3.1	.3	.9	4.4
16	9.3	14.7	19.1	21.2	20.7	17.9	13.8	9.1	4.2	.7	.5	3.6
Th	8.7	14.3	19.3	22.3	22.4	19.9	15.6	10.5	5.1	.5	-1.2	.8
17	5.4	11.1	16.6	20.5	21.8	20.2	16.7	12.1	7.2	2.8	.6	1.9
F	6.3	11.9	17.4	21.4	23.0	21.7	17.9	12.9	7.5	2.3	-1.4	-1.6
18	1.8	7.4	13.3	18.4	21.4	21.5	19.0	14.8	10.1	5.6	2.2	1.5
Sa	4.4	9.6	15.2	19.9	22.6	22.6	19.9	15.3	9.9	4.6	.1	-2.1
19	-.8	3.8	9.8	15.4	19.6	21.5	20.5	17.3	12.9	8.4	4.7	2.6
Su	3.4	7.4	12.9	17.9	21.3	22.5	21.1	17.4	12.3	7.1	2.4	-.9
20	-1.8	.9	6.2	12.0	16.8	20.0	20.8	19.0	15.4	11.2	7.4	4.6
M	3.8	5.9	10.4	15.6	19.5	21.5	21.4	19.0	14.7	9.7	5.0	1.3
21	-.9	-.4	3.1	8.4	13.5	17.4	19.5	19.5	17.4	13.8	10.1	7.1
Tu	5.4	5.7	8.5	13.0	17.2	19.8	20.6	19.5	16.5	12.3	7.8	3.9
22	1.2	.1	1.4	5.3	10.1	14.2	17.0	18.4	18.0	15.8	12.7	9.7
W	7.6	6.8	7.7	10.7	14.7	17.7	19.0	18.9	17.3	14.4	10.6	6.8
23	3.9	2.0	1.6	3.3	6.9	10.8	13.9	16.0	17.0	16.6	14.7	12.2
Th	10.0	8.6	8.3	9.5	12.2	15.2	17.0	17.5	17.0	15.5	12.9	9.8
24	6.8	4.6	3.3	3.1	4.8	7.7	10.7	13.0	14.7	15.8	15.7	14.3
F	12.4	10.8	9.8	9.6	10.5	12.5	14.6	15.6	15.7	15.3	14.2	12.3
25	9.8	7.5	5.8	4.6	4.3	5.5	7.7	10.0	11.9	13.8	15.1	15.4
Sa	14.5	13.0	11.7	10.7	10.2	10.5	11.9	13.2	13.9	14.2	14.4	13.9
26	12.5	10.5	8.5	6.8	5.4	4.7	5.4	7.2	9.2	11.3	13.5	15.3
Su	15.9	15.1	13.7	12.3	10.9	9.7	9.5	10.4	11.5	12.5	13.5	14.4
27	14.4	13.4	11.5	9.4	7.4	5.4	4.3	4.8	6.6	8.9	11.5	14.3
M	16.3	16.8	15.8	14.0	12.1	10.0	8.2	7.7	8.6	10.1	11.9	13.8
28	15.3	15.6	14.4	12.2	9.7	7.1	4.7	3.5	4.3	6.6	9.5	12.8
Tu	15.9	17.8	17.8	16.1	13.6	10.8	8.0	5.8	5.5	7.1	9.5	12.3
29	15.0	16.8	16.9	15.2	12.5	9.3	6.1	3.5	2.6	4.2	7.4	11.3
W	15.1	18.2	19.4	18.3	15.7	12.2	8.6	5.2	3.1	3.6	6.3	9.9
30	13.7	16.9	18.6	18.1	15.6	12.0	8.2	4.7	2.2	2.2	5.0	9.4
Th	14.0	18.0	20.4	20.5	18.2	14.3	9.9	5.6	2.1	.6	2.4	6.4
31	11.3	15.8	19.1	20.1	18.7	15.2	11.0	6.7	3.1	1.3	2.6	6.9
F	12.3	17.2	20.8	22.1	20.8	17.1	12.1	7.0	2.4	-.8	-1.1	2.1

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

NIKISHKA, ALASKA, 1986

Lat. 60° 41' N Long. 151° 24' W

NOVEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	7.5	13.3	18.0	20.9	21.1	18.6	14.4	9.6	5.2	2.0	1.3	4.1
Sa	9.5	15.5	20.3	23.0	23.0	20.2	15.2	9.4	3.9	-6	-3.0	-1.9
2	2.8	9.2	15.4	19.9	22.1	21.3	18.0	13.2	8.2	4.1	1.6	2.1
Su	6.2	12.5	18.5	22.7	24.2	22.8	18.7	13.0	6.8	1.3	-2.7	-4.1
3	-1.7	4.2	11.1	17.1	21.1	22.4	20.8	17.0	12.0	7.2	3.6	2.0
M	3.7	8.8	15.3	20.8	23.9	24.3	21.8	16.9	10.8	4.7	-4	-3.7
4	-4.0	-6	5.8	12.7	18.1	21.4	22.0	19.9	15.9	11.0	6.7	3.8
Tu	3.1	5.6	11.1	17.3	21.9	24.0	23.4	20.2	15.1	9.1	3.4	-1.0
5	-3.5	-3.1	1.0	7.3	13.6	18.2	20.8	21.0	18.8	14.9	10.6	6.9
W	4.6	4.5	7.5	12.8	18.2	21.8	22.9	21.8	18.6	13.7	8.2	3.2
6	-5	-2.5	-1.6	2.5	8.3	13.7	17.6	19.7	19.8	17.9	14.5	10.7
Th	7.7	5.8	6.0	8.9	13.6	17.9	20.5	21.2	20.1	17.1	12.9	8.2
7	4.0	.8	-.8	.1	3.8	8.6	13.1	16.4	18.5	18.8	17.3	14.5
F	11.4	8.8	7.1	7.1	9.4	13.1	16.4	18.4	19.1	18.5	16.3	12.9
8	9.0	5.5	2.6	.9	1.5	4.4	8.4	12.1	15.3	17.6	18.3	17.3
Sa	15.1	12.4	9.9	7.9	7.4	8.9	11.7	14.3	16.1	17.3	17.4	16.1
9	13.5	10.3	7.2	4.4	2.4	2.4	4.6	7.8	11.2	14.5	17.3	18.5
Su	17.9	15.9	13.3	10.6	8.1	6.9	7.6	9.6	11.9	14.1	16.1	17.1
10	16.5	14.5	11.8	8.8	5.7	3.3	2.8	4.4	7.3	10.8	14.6	17.7
M	19.2	18.7	16.7	13.9	10.7	7.4	5.4	5.6	7.4	9.9	12.9	15.7
11	17.4	17.3	15.6	13.0	9.9	6.4	3.5	2.8	4.4	7.4	11.3	15.5
Tu	18.8	20.2	19.4	17.0	13.7	9.8	5.8	3.4	3.5	5.6	8.8	12.6
12	16.2	18.3	18.2	16.5	13.7	10.2	6.3	3.4	2.8	4.8	8.3	12.7
W	17.1	20.2	21.0	19.6	16.6	12.6	8.0	3.7	1.4	2.0	4.7	8.8
13	13.4	17.3	19.3	18.9	16.8	13.6	9.7	5.7	3.1	3.2	5.9	10.1
Th	14.8	19.0	21.5	21.4	19.0	15.3	10.7	5.6	1.4	-.3	1.3	5.0
14	9.9	14.9	18.7	20.1	19.0	16.4	12.8	8.8	5.0	3.1	4.3	7.9
F	12.5	17.2	20.8	22.1	20.8	17.5	13.1	8.1	3.0	-.6	-1.1	1.7
15	6.4	11.8	16.8	19.9	20.4	18.6	15.4	11.6	7.6	4.4	3.7	6.1
Sa	10.4	15.2	19.4	21.9	21.9	19.4	15.3	10.4	5.3	.8	-1.7	-.8
16	3.2	8.6	14.0	18.4	20.6	20.2	17.6	14.0	10.2	6.6	4.4	5.0
Su	8.5	13.2	17.6	20.9	22.1	20.8	17.3	12.6	7.6	2.9	-.8	-1.9
17	.5	5.4	10.9	16.0	19.6	20.7	19.4	16.2	12.5	8.9	6.0	4.9
M	6.8	11.0	15.7	19.4	21.5	21.4	19.0	14.9	10.0	5.2	1.2	-1.4
18	-1.1	2.4	7.7	13.1	17.4	20.0	20.2	18.2	14.8	11.1	8.0	6.0
Tu	6.0	8.9	13.3	17.5	20.2	21.1	20.0	16.9	12.4	7.7	3.5	.3
19	-1.2	.3	4.6	9.9	14.6	18.0	19.7	19.2	16.8	13.4	10.1	7.7
W	6.5	7.4	10.8	15.1	18.4	20.1	20.1	18.2	14.8	10.4	6.1	2.5
20	.2	-.2	2.2	6.7	11.4	15.3	17.9	18.9	18.0	15.5	12.4	9.6
Th	7.8	7.3	8.9	12.4	16.1	18.4	19.2	18.5	16.4	13.0	8.9	5.2
21	2.4	.8	1.2	4.0	8.3	12.3	15.4	17.3	17.9	16.9	14.5	11.7
F	9.5	8.2	8.1	10.0	13.2	16.1	17.6	17.8	16.9	14.8	11.7	8.1
22	5.0	2.9	1.8	2.6	5.5	9.3	12.6	15.0	16.6	17.1	16.1	13.9
Sa	11.5	9.7	8.6	8.8	10.5	13.2	15.4	16.3	16.3	15.6	13.8	11.1
23	8.0	5.4	3.7	3.0	3.9	6.5	9.8	12.5	14.6	16.2	16.7	15.7
Su	13.7	11.5	9.9	8.9	8.8	10.3	12.4	14.1	14.9	15.2	14.8	13.4
24	11.0	8.3	6.1	4.6	3.9	4.7	7.1	10.0	12.5	14.6	16.2	16.7
M	15.7	13.7	11.6	9.8	8.5	8.2	9.3	11.1	12.7	13.8	14.6	14.7
25	13.6	11.5	9.0	6.8	5.2	4.4	5.2	7.5	10.3	12.8	15.2	16.9
Tu	17.2	16.0	13.7	11.3	9.2	7.4	6.7	7.7	9.6	11.6	13.3	14.8
26	15.3	14.4	12.2	9.6	7.4	5.5	4.5	5.4	7.9	10.9	13.9	16.4
W	18.1	18.0	16.2	13.4	10.5	7.7	5.5	4.7	5.9	8.4	11.1	13.7
27	15.8	16.4	15.3	12.9	10.1	7.5	5.3	4.4	5.6	8.6	12.2	15.6
Th	18.3	19.5	18.7	16.1	12.5	8.9	5.6	3.0	2.5	4.4	7.8	11.5
28	14.9	17.3	17.8	16.3	13.4	10.1	7.2	4.8	4.2	6.1	9.9	14.2
F	17.8	20.3	20.8	19.0	15.4	11.0	6.8	3.0	.4	.5	3.5	8.0
29	12.7	16.6	19.0	19.1	16.9	13.5	9.8	6.6	4.3	4.2	7.0	11.7
Sa	16.5	20.2	22.2	21.7	18.7	14.2	9.1	4.3	.2	-1.9	-.8	3.4
30	9.0	14.3	18.5	20.6	20.0	17.2	13.2	9.2	5.8	3.8	4.5	8.4
Su	13.9	18.9	22.3	23.5	21.9	17.9	12.5	6.9	1.8	-2.1	-3.5	-1.2

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

Lat. 60° 41' N Long. 151° 24' W

DECEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	4.1	10.5	16.1	20.1	21.6	20.4	17.0	12.6	8.4	5.1	3.6	5.3
M	10.1	16.0	21.0	23.8	24.1	21.5	16.7	10.8	4.9	-2	-3.8	-4.3
2	-8	5.4	12.1	17.7	21.2	22.1	20.2	16.4	11.9	7.7	4.6	3.8
Tu	6.4	11.8	17.8	22.3	24.4	23.9	20.6	15.4	9.2	3.4	-1.5	-4.5
3	-4.1	.2	6.9	13.5	18.7	21.7	22.0	19.7	15.7	11.2	7.2	4.4
W	4.2	7.5	13.2	18.8	22.7	24.2	23.0	19.4	14.1	8.1	2.5	-2.0
4	-4.3	-3.1	1.7	8.3	14.4	19.0	21.5	21.4	19.0	15.0	10.6	6.9
Th	4.6	4.9	8.5	14.0	19.0	22.1	23.1	21.7	18.2	13.0	7.4	2.3
5	-1.6	-3.3	-1.6	3.3	9.4	14.9	18.9	21.0	20.7	18.3	14.4	10.4
F	7.0	5.0	5.5	9.1	14.0	18.2	20.8	21.6	20.3	17.0	12.4	7.4
6	2.9	-5	-1.7	.2	4.8	10.2	14.9	18.5	20.3	20.0	17.7	14.2
Sa	10.5	7.3	5.4	5.9	9.0	13.2	16.6	18.9	19.7	18.8	16.1	12.2
7	7.9	4.0	1.1	.1	2.0	6.0	10.6	14.7	18.0	19.8	19.6	17.4
Su	14.2	10.7	7.7	5.7	5.9	8.4	11.7	14.6	16.8	18.0	17.7	15.6
8	12.4	8.8	5.5	2.9	1.9	3.5	6.9	10.8	14.5	17.6	19.5	19.4
M	17.4	14.4	11.1	8.0	5.7	5.4	7.2	9.8	12.5	15.0	16.8	17.0
9	15.6	13.0	10.0	7.0	4.5	3.5	4.7	7.6	11.0	14.5	17.7	19.5
Tu	19.4	17.5	14.6	11.3	7.8	5.1	4.3	5.6	7.9	10.8	13.8	16.1
10	16.9	15.9	13.8	11.2	8.4	5.8	4.6	5.6	8.1	11.4	14.9	18.1
W	19.9	19.6	17.5	14.5	11.0	7.1	4.0	3.0	4.1	6.5	9.8	13.4
11	16.2	17.3	16.5	14.6	12.1	9.3	6.6	5.3	6.3	8.8	12.1	15.8
Th	18.9	20.3	19.6	17.2	14.0	10.1	5.8	2.5	1.6	2.9	5.9	9.8
12	13.9	16.9	17.9	17.1	15.1	12.6	9.6	6.8	5.8	7.1	9.8	13.4
F	17.0	19.7	20.6	19.3	16.5	12.8	8.5	4.1	1.0	.5	2.6	6.2
13	10.7	15.1	17.9	18.6	17.5	15.3	12.5	9.3	6.7	6.2	8.1	11.2
Sa	14.9	18.3	20.5	20.5	18.5	15.1	11.1	6.5	2.2	-3	.1	3.1
14	7.5	12.3	16.6	19.0	19.1	17.4	14.9	11.8	8.7	6.5	6.8	9.4
Su	13.0	16.6	19.6	20.9	20.0	17.2	13.3	8.9	4.3	.4	-1.1	.6
15	4.5	9.4	14.3	18.1	19.8	19.1	16.9	14.0	10.8	7.9	6.5	7.7
M	11.0	14.8	18.2	20.4	20.7	18.9	15.4	11.1	6.6	2.3	-8	-1.1
16	1.8	6.5	11.6	16.2	19.3	20.0	18.6	15.9	12.7	9.6	7.1	6.7
Tu	8.9	12.8	16.5	19.4	20.8	20.1	17.4	13.4	8.9	4.5	.6	-1.4
17	-3	3.6	8.7	13.6	17.7	19.9	19.8	17.7	14.6	11.3	8.4	6.6
W	7.2	10.4	14.4	17.9	20.0	20.5	19.0	15.7	11.3	6.7	2.6	-5
18	-1.3	1.0	5.7	10.8	15.3	18.6	20.0	19.1	16.5	13.1	9.9	7.4
Th	6.5	8.0	11.8	15.8	18.7	20.1	19.8	17.6	13.8	9.3	4.9	1.4
19	-8	-5	2.9	7.9	12.7	16.5	19.0	19.6	18.1	15.1	11.7	8.7
F	6.8	6.6	9.0	13.0	16.7	18.9	19.6	18.7	16.0	12.1	7.6	3.7
20	.8	-5	.9	4.9	9.9	14.1	17.2	18.9	18.8	16.9	13.7	10.4
Sa	7.9	6.5	7.1	9.9	13.8	16.9	18.4	18.6	17.3	14.5	10.5	6.4
21	3.0	.8	.5	2.7	7.0	11.5	15.1	17.6	18.6	18.0	15.7	12.5
Su	9.5	7.3	6.5	7.5	10.4	14.0	16.5	17.5	17.4	16.0	13.2	9.4
22	5.7	3.0	1.6	1.9	4.6	8.8	12.9	15.8	17.6	18.2	17.2	14.7
M	11.6	8.8	7.0	6.4	7.6	10.5	13.6	15.6	16.4	16.3	15.0	12.3
23	8.9	5.8	3.6	2.7	3.5	6.4	10.3	13.8	16.3	17.7	18.0	16.6
Tu	14.0	10.9	8.4	6.7	6.2	7.3	9.9	12.6	14.4	15.4	15.5	14.4
24	12.1	9.0	6.4	4.7	4.1	5.1	7.9	11.5	14.6	16.7	18.0	17.9
W	16.3	13.5	10.4	7.9	6.1	5.4	6.4	8.8	11.4	13.3	14.7	15.3
25	14.5	12.4	9.7	7.4	5.9	5.3	6.3	9.0	12.4	15.3	17.4	18.5
Th	18.2	16.3	13.2	9.9	7.2	5.1	4.1	4.9	7.4	10.2	12.7	14.8
26	15.8	15.3	13.3	10.7	8.5	6.9	6.2	7.0	9.8	13.2	16.2	18.4
F	19.4	18.7	16.3	12.9	9.3	6.2	3.6	2.3	3.2	6.0	9.4	12.7
27	15.5	16.9	16.4	14.4	11.8	9.4	7.5	6.5	7.4	10.3	14.0	17.3
Sa	19.6	20.5	19.4	16.4	12.4	8.4	4.7	1.6	.2	1.6	5.1	9.3
28	13.5	16.8	18.3	17.7	15.5	12.6	9.8	7.5	6.3	7.4	10.8	15.0
Su	18.7	21.1	21.6	19.9	16.4	11.8	7.2	2.9	-5	-1.7	.4	4.8
29	9.9	14.8	18.3	19.8	18.9	16.2	12.9	9.6	6.9	5.7	7.4	11.4
M	16.2	20.1	22.5	22.6	20.3	16.1	10.9	5.7	1.0	-2.5	-3.1	-2
30	5.2	11.1	16.4	19.9	21.0	19.6	16.4	12.6	8.9	5.9	5.0	7.4
Tu	12.2	17.4	21.5	23.6	23.2	20.3	15.5	9.8	4.2	-8	-4.0	-3.9
31	.1	6.3	12.7	18.0	21.3	21.8	19.8	16.1	11.8	7.8	4.8	4.5
W	7.6	13.0	18.4	22.4	24.2	23.3	19.9	14.6	8.6	2.8	-2.2	-4.8

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

SELDovia, ALASKA, 1986

Lat. 59° 27'N Long. 151° 43'W

JANUARY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	.1	2.6	6.3	10.2	13.7	16.1	16.8	15.7	13.1	10.0	6.9	5.0
M	4.7	6.2	8.8	10.2	11.8	14.4	16.0	14.5	11.4	7.7	4.1	1.5
2	.6	1.7	4.4	8.0	11.7	14.7	16.5	16.6	15.0	12.3	9.2	6.4
Th	4.7	4.6	6.1	8.6	11.2	13.5	14.9	14.9	13.3	10.6	7.4	4.5
3	2.4	2.0	3.3	6.1	9.5	12.7	15.3	16.7	16.4	14.5	11.7	8.7
F	6.0	4.3	4.1	5.4	7.6	10.1	12.3	13.7	13.9	12.7	10.5	7.9
4	5.4	3.7	3.4	4.8	7.3	10.5	13.5	15.8	16.9	16.4	14.4	11.6
Sa	8.4	5.6	3.7	3.2	4.2	6.2	8.6	11.0	12.8	13.4	12.8	11.2
5	8.9	6.7	5.0	4.6	5.7	8.0	11.0	13.9	16.2	17.2	16.6	14.6
Su	11.7	8.3	5.0	2.7	1.9	2.6	4.5	7.1	10.0	12.3	13.6	13.6
6	12.3	10.3	7.9	5.9	5.2	6.0	8.2	11.2	14.2	16.6	17.8	17.2
M	15.1	11.9	8.1	4.3	1.4	.2	.8	2.9	6.0	9.5	12.5	14.4
7	14.8	13.7	11.5	8.7	6.3	5.1	5.8	8.0	11.2	14.6	17.3	18.6
Tu	18.1	15.8	12.1	7.7	3.2	-2.2	-1.6	-9	1.7	5.4	9.6	13.3
8	15.6	16.1	14.9	12.3	8.9	6.0	4.5	5.2	7.7	11.2	15.0	18.1
W	19.5	18.9	16.3	12.1	7.0	1.9	-1.8	-3.1	-2.0	1.1	5.5	10.4
9	14.5	17.0	17.4	15.7	12.5	8.5	5.1	3.6	4.5	7.4	11.5	15.7
Th	19.0	20.4	19.5	16.4	11.6	5.9	.5	-3.2	-4.2	-2.5	1.3	6.4
10	11.7	15.9	18.3	18.2	15.9	12.0	7.5	4.0	2.8	4.1	7.5	12.0
F	16.5	19.8	21.0	19.7	16.0	10.7	4.6	-9	-4.1	-4.5	-2.1	2.3
11	7.8	13.2	17.3	19.1	18.4	15.4	10.9	6.2	2.9	2.2	4.0	7.9
Sa	12.7	17.2	20.3	21.0	19.1	15.0	9.3	3.2	-1.8	-4.4	-4.0	-9
12	4.0	9.6	14.8	18.3	19.4	18.0	14.4	9.6	5.0	2.2	2.1	4.4
Su	8.6	13.4	17.6	20.2	20.3	17.9	13.4	7.7	2.0	-2.2	-3.9	-2.6
13	1.0	6.1	11.5	16.1	18.8	19.1	17.0	13.0	8.3	4.1	2.0	2.5
W	5.2	9.3	13.8	17.5	19.4	18.9	16.1	11.6	6.2	1.3	-1.9	-2.5
14	-.5	3.4	8.3	13.2	17.0	18.7	18.2	15.6	11.5	7.1	3.7	2.3
Tu	3.3	6.1	10.0	13.9	16.9	18.1	17.1	14.1	9.9	5.2	1.3	-.7
15	-.4	2.1	5.9	10.3	14.4	17.2	18.1	16.9	14.0	10.2	6.4	3.7
W	2.9	4.2	6.9	10.3	13.5	15.8	16.3	15.0	12.2	8.6	4.9	2.1
16	1.1	2.1	4.7	8.2	11.9	15.1	17.0	17.0	15.4	12.6	9.2	6.0
Th	4.0	3.7	5.0	7.3	10.1	12.6	14.3	14.5	13.2	10.8	8.0	5.3
17	3.5	3.2	4.6	7.0	10.0	12.9	15.2	16.3	15.8	14.1	11.5	8.6
F	6.0	4.5	4.3	5.4	7.3	9.5	11.5	12.8	12.9	11.9	10.2	8.1
18	6.3	5.2	5.3	6.6	8.7	11.1	13.4	15.0	15.5	14.8	13.1	10.8
Sa	8.3	6.2	4.8	4.6	5.4	6.8	8.6	10.4	11.6	11.9	11.4	10.2
19	8.9	7.6	6.8	7.0	8.1	9.7	11.6	13.4	14.6	14.9	14.1	12.5
Su	10.5	8.3	6.2	4.8	4.4	4.9	6.1	7.8	9.6	11.0	11.7	11.6
20	10.9	9.9	8.7	7.9	7.9	8.7	10.1	11.7	13.3	14.4	14.6	13.9
M	12.5	10.5	8.1	5.9	4.3	3.6	4.0	5.2	7.2	9.3	11.1	12.1
21	12.4	11.9	10.8	9.4	8.3	8.1	8.7	10.0	11.7	13.4	14.6	14.9
Tu	14.2	12.6	10.4	7.7	5.0	3.2	2.5	3.1	4.7	7.1	9.7	11.9
22	13.2	13.5	12.7	11.2	9.4	8.0	7.6	8.3	9.8	11.9	13.9	15.3
W	15.6	14.7	12.8	10.0	6.7	3.7	1.8	1.3	2.3	4.6	7.7	10.8
23	13.2	14.5	14.4	13.2	11.0	8.7	7.1	6.8	7.9	9.9	12.5	14.9
Th	16.4	16.5	15.2	12.6	9.0	5.1	1.9	.2	.3	2.1	5.2	8.9
24	12.4	14.9	15.7	15.0	13.0	10.1	7.3	5.8	6.0	7.7	10.5	13.6
F	16.2	17.6	17.3	15.2	11.8	7.4	3.1	.0	-1.1	-1.1	2.7	6.5
25	10.8	14.4	16.4	16.6	15.0	12.0	8.6	5.7	4.6	5.5	8.1	11.5
Sa	15.0	17.7	18.6	17.6	14.6	10.3	5.4	1.0	-1.6	-1.8	.3	4.0
26	8.5	13.0	16.2	17.6	16.8	14.2	10.5	6.7	4.2	3.8	5.6	8.9
Su	12.9	16.5	18.8	19.1	17.2	13.3	8.3	3.1	-8	-2.6	-1.6	1.6
27	6.1	10.9	15.2	17.8	18.1	16.3	12.8	8.6	4.9	3.0	3.5	6.2
M	10.1	14.3	17.7	19.5	18.9	16.0	11.4	6.1	1.2	-2.0	-2.6	-.4
28	3.6	8.6	13.4	17.1	18.7	17.9	15.0	10.9	6.6	3.3	2.3	3.7
Tu	7.1	11.3	15.4	18.3	19.3	17.9	14.3	9.4	4.2	-.1	-2.2	-1.5
29	1.6	6.2	11.2	15.5	18.3	18.8	17.0	13.4	9.0	4.9	2.3	2.1
W	4.2	8.0	12.2	15.9	18.2	18.4	16.4	12.5	7.6	3.0	-.3	-1.3
30	.4	4.1	8.9	13.5	17.1	18.8	18.3	15.6	11.6	7.2	3.6	1.8
Th	2.3	4.8	8.6	12.5	15.6	17.3	17.0	14.6	10.8	6.5	2.7	.4
31	.4	2.8	6.7	11.2	15.1	17.8	18.6	17.3	14.1	10.1	6.1	3.0
F	1.7	2.6	5.2	8.7	12.0	14.6	15.9	15.4	13.1	9.8	6.3	3.4

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

Lat. 59° 27'N Long. 151° 43'W

FEBRUARY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	2.0	2.6	5.1	8.9	12.7	15.9	17.9	18.0	16.2	13.0	9.1	5.5
Sa	2.9	2.0	2.8	5.1	8.0	10.9	13.2	14.3	13.9	12.2	9.6	6.9
2	4.8	3.9	4.6	7.0	10.2	13.4	16.0	17.4	17.2	15.3	12.3	8.9
Su	5.7	3.2	2.1	2.7	4.4	6.8	9.3	11.5	12.9	13.1	12.0	10.3
3	8.2	6.5	5.6	6.1	8.0	10.5	13.2	15.5	16.8	16.6	15.1	12.5
M	9.3	6.2	3.6	2.0	2.0	3.2	5.2	7.7	10.2	12.1	13.0	12.7
4	11.6	9.8	8.0	6.8	6.7	7.9	10.1	12.5	14.8	16.3	16.6	15.5
Tu	13.2	10.2	6.8	3.6	1.5	.8	1.6	3.6	6.4	9.5	12.1	13.7
5	14.0	13.1	11.2	8.9	7.0	6.3	7.1	9.1	11.7	14.4	16.4	17.2
W	16.4	14.3	11.0	7.0	3.2	.4	-.7	.0	2.3	5.8	9.6	13.0
6	15.1	15.6	14.5	12.0	8.9	6.3	5.2	5.8	8.0	11.1	14.4	17.0
Th	18.2	17.6	15.2	11.4	6.7	2.1	-1.1	-2.2	-1.1	1.9	6.1	10.7
7	14.5	16.8	17.0	15.3	12.0	8.1	5.0	3.7	4.5	7.2	11.0	15.0
F	18.1	19.4	18.6	15.7	11.1	5.7	.7	-2.5	-3.2	-1.4	2.4	7.4
8	12.5	16.4	18.4	18.0	15.3	11.1	6.6	3.2	2.2	3.7	7.1	11.6
Sa	16.0	19.2	20.3	18.9	15.3	10.0	4.1	-.9	-3.6	-3.4	-.7	3.9
9	9.5	14.7	18.3	19.5	18.1	14.4	9.5	4.7	1.7	1.3	3.5	7.7
Su	12.6	17.2	20.1	20.5	18.4	14.0	8.2	2.3	-2.1	-3.8	-2.6	1.1
10	6.3	12.0	16.8	19.6	19.7	17.2	12.8	7.5	2.9	.6	1.1	4.1
M	8.8	13.8	18.1	20.3	19.9	17.0	12.1	6.2	.9	-2.5	-3.0	-.7
11	3.7	9.2	14.5	18.5	20.0	19.0	15.6	10.6	5.5	1.6	.3	1.7
Tu	5.3	10.1	14.9	18.4	19.7	18.5	15.0	9.9	4.5	.1	-2.0	-1.2
12	2.0	6.8	11.9	16.5	19.2	19.5	17.4	13.4	8.5	3.9	1.1	.8
W	3.0	6.8	11.3	15.4	18.0	18.4	16.4	12.6	7.9	3.4	.4	-.3
13	1.5	5.2	9.7	14.2	17.5	19.0	18.1	15.2	11.1	6.6	3.0	1.3
Th	1.9	4.5	8.2	12.1	15.3	16.9	16.5	14.1	10.6	6.6	3.3	1.6
14	2.0	4.5	8.1	12.1	15.5	17.6	17.8	16.1	12.9	9.1	5.5	2.9
F	2.2	3.3	5.9	9.1	12.2	14.4	15.2	14.4	12.1	9.1	6.2	4.1
15	3.5	4.7	7.3	10.5	13.5	15.8	16.8	16.2	14.0	11.0	7.9	5.1
Sa	3.5	3.4	4.7	6.9	9.3	11.6	13.1	13.5	12.5	10.7	8.6	6.7
16	5.6	5.7	7.1	9.4	11.9	14.0	15.3	15.6	14.5	12.4	9.9	7.4
Su	5.4	4.4	4.4	5.5	7.1	8.9	10.5	11.6	11.9	11.3	10.1	8.9
17	7.8	7.3	7.6	8.9	10.6	12.3	13.6	14.4	14.3	13.2	11.5	9.5
M	7.7	6.1	5.2	5.0	5.6	6.6	7.9	9.3	10.4	11.0	11.0	10.5
18	9.8	9.1	8.7	8.8	9.6	10.7	11.9	12.9	13.6	13.5	12.8	11.5
Tu	9.9	8.3	6.7	5.4	4.8	4.9	5.6	6.8	8.4	9.9	11.0	11.5
19	11.5	11.0	10.2	9.4	9.1	9.3	10.1	11.1	12.2	13.2	13.6	13.2
W	12.2	10.7	8.8	6.7	4.9	3.8	3.7	4.4	6.0	8.1	10.2	11.9
20	12.7	12.8	12.0	10.7	9.3	8.4	8.3	9.1	10.4	12.1	13.6	14.4
Th	14.2	13.2	11.3	8.7	5.9	3.5	2.2	2.3	3.5	5.8	8.7	11.5
21	13.4	14.3	13.9	12.4	10.2	8.1	6.9	7.0	8.2	10.2	12.6	14.7
F	15.8	15.6	14.0	11.3	7.8	4.2	1.6	.5	1.2	3.4	6.7	10.3
22	13.5	15.4	15.7	14.4	11.9	8.8	6.3	5.2	5.8	7.8	10.8	13.9
Sa	16.4	17.4	16.7	14.2	10.5	6.0	2.0	-.4	-.8	1.0	4.3	8.5
23	12.7	15.8	17.1	16.5	14.0	10.4	6.7	4.1	3.6	5.1	8.2	12.0
Su	15.7	18.2	18.7	17.1	13.6	8.8	3.8	-.2	-2.0	-1.2	1.8	6.2
24	11.1	15.4	18.0	18.3	16.3	12.7	8.2	4.2	2.1	2.5	5.1	9.1
M	13.6	17.5	19.6	19.4	16.7	12.2	6.6	1.5	-1.9	-2.6	-.5	3.8
25	9.0	14.1	18.0	19.5	18.5	15.2	10.5	5.6	1.9	.6	2.0	5.7
Tu	10.5	15.3	18.9	20.4	19.1	15.5	10.2	4.4	-.3	-2.7	-2.0	1.4
26	6.5	12.1	16.9	19.8	20.1	17.7	13.3	8.0	3.1	.0	-.2	2.4
W	6.8	11.9	16.6	19.6	20.1	18.0	13.6	8.1	2.7	-1.1	-2.2	-.2
27	4.2	9.6	15.0	18.9	20.6	19.6	16.1	11.0	5.5	1.1	-1.0	-.2
Th	3.2	8.0	13.0	17.1	19.3	19.0	16.3	11.7	6.5	1.9	-.8	-.6
28	2.4	7.2	12.4	17.0	19.9	20.4	18.2	14.0	8.7	3.7	.1	-1.1
F	.5	4.2	8.8	13.3	16.7	18.2	17.3	14.4	10.1	5.6	2.1	.6

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

SELDOWIA, ALASKA, 1986

Lat. 59° 27'N Long. 151° 43'W

MARCH

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	1.7	5.1	9.8	14.4	18.0	19.8	19.3	16.4	12.0	7.1	2.8	.0
Sa	-1.4	1.5	5.0	9.0	12.8	15.4	16.4	15.4	12.8	9.2	5.8	3.3
2	2.6	4.2	7.5	11.6	15.3	17.9	18.8	17.7	14.7	10.7	6.4	2.9
Su	.8	.6	2.3	5.2	8.5	11.5	13.7	14.5	13.8	11.8	9.3	6.8
3	5.0	4.8	6.3	9.0	12.2	15.0	16.9	17.4	16.2	13.6	10.3	6.8
M	3.8	1.9	1.6	2.7	4.8	7.3	9.8	11.8	12.9	12.9	11.8	10.1
4	8.3	6.9	6.5	7.4	9.3	11.6	13.9	15.5	16.1	15.3	13.4	10.8
Tu	7.9	5.1	3.0	2.0	2.3	3.7	5.7	8.1	10.4	12.1	12.9	12.6
5	11.6	9.9	8.3	7.3	7.4	8.5	10.3	12.3	14.2	15.3	15.2	14.1
W	12.0	9.3	6.3	3.5	1.8	1.4	2.2	4.2	6.9	9.9	12.3	13.8
6	14.1	13.1	11.2	8.9	7.0	6.4	7.0	8.7	11.0	13.4	15.3	15.9
Th	15.3	13.4	10.4	6.8	3.3	.9	.0	.9	3.2	6.7	10.4	13.5
7	15.4	15.7	14.3	11.6	8.4	5.8	4.7	5.2	7.3	10.3	13.5	16.0
F	17.2	16.7	14.5	10.8	6.4	2.2	-1.5	-1.2	.1	3.3	7.6	12.0
8	15.4	17.2	17.0	14.7	11.0	6.9	3.9	2.8	3.8	6.6	10.4	14.4
Sa	17.3	18.5	17.7	14.8	10.3	5.1	.7	-1.8	-1.9	.4	4.5	9.6
9	14.3	17.6	18.7	17.5	14.1	9.4	4.8	1.8	1.2	3.1	6.7	11.4
Su	15.8	18.7	19.5	17.9	14.1	8.8	3.3	-1.8	-2.5	-1.5	1.9	6.9
10	12.3	16.8	19.3	19.4	16.9	12.4	7.1	2.5	.1	.4	3.3	7.8
M	12.9	17.3	19.7	19.6	17.1	12.5	6.8	1.6	-1.7	-2.2	.0	4.4
11	9.8	15.1	18.9	20.2	18.9	15.2	10.0	4.5	.5	-.8	.7	4.4
Tu	9.5	14.6	18.4	20.0	18.9	15.4	10.3	4.7	.3	-1.7	-.8	2.6
12	7.6	13.0	17.5	20.0	19.9	17.3	12.7	7.3	2.3	-.7	-.8	1.8
W	6.2	11.3	15.9	18.9	19.3	17.2	13.2	8.1	3.2	.0	-.5	1.6
13	5.8	10.8	15.6	18.9	20.0	18.5	14.9	9.9	4.8	-.8	-.8	.3
Th	3.6	8.2	12.9	16.6	18.4	17.8	15.1	10.9	6.3	2.5	.8	1.6
14	4.7	9.0	13.5	17.2	19.1	18.8	16.2	12.1	7.3	3.1	.4	.0
F	2.0	5.6	9.9	13.7	16.4	17.1	15.8	12.8	9.0	5.3	2.9	2.5
15	4.3	7.7	11.6	15.2	17.6	18.2	16.7	13.6	9.5	5.5	2.4	.9
Sa	1.6	4.0	7.4	10.9	13.8	15.4	15.3	13.6	10.9	7.8	5.3	4.2
16	4.8	7.0	10.2	13.3	15.8	17.0	16.5	14.4	11.2	7.8	4.7	2.7
Su	2.2	3.3	5.7	8.4	11.0	13.0	13.8	13.4	11.8	9.7	7.6	6.2
17	5.9	7.0	9.2	11.7	13.9	15.3	15.6	14.6	12.4	9.7	7.0	4.9
M	3.7	3.7	4.8	6.6	8.6	10.3	11.6	12.2	11.8	10.7	9.4	8.2
18	7.6	7.7	8.8	10.4	12.2	13.5	14.2	14.1	13.1	11.2	9.1	7.2
Tu	5.7	4.8	4.8	5.5	6.6	7.9	9.2	10.3	11.0	11.0	10.6	10.0
19	9.3	8.9	8.9	9.6	10.6	11.6	12.5	13.0	13.0	12.3	11.0	9.5
W	8.1	6.7	5.6	5.1	5.2	5.8	6.8	8.0	9.4	10.6	11.2	11.3
20	11.1	10.5	9.8	9.3	9.3	9.8	10.5	11.3	12.2	12.7	12.5	11.8
Th	10.6	9.0	7.3	5.6	4.5	4.1	4.5	5.7	7.4	9.5	11.2	12.3
21	12.7	12.3	11.2	9.8	8.6	8.1	8.3	9.2	10.6	12.1	13.3	13.6
F	13.1	11.7	9.6	7.1	4.7	3.1	2.6	3.4	5.2	7.8	10.6	12.8
22	14.1	14.1	13.0	11.0	8.7	6.9	6.2	6.7	8.3	10.6	12.9	14.7
Sa	15.3	14.5	12.5	9.5	6.0	3.0	1.3	1.2	2.8	5.7	9.2	12.7
23	15.1	15.9	15.2	13.0	9.8	6.7	4.6	4.2	5.5	8.1	11.4	14.5
Su	16.6	17.0	15.5	12.5	8.4	4.2	.9	-.4	.6	3.3	7.3	11.7
24	15.4	17.4	17.4	15.4	11.8	7.6	3.9	2.0	2.4	4.8	8.6	12.8
M	16.4	18.4	18.2	15.9	11.7	6.7	2.1	-.9	-1.2	.9	5.0	9.9
25	14.7	18.1	19.2	17.9	14.5	9.7	4.7	1.1	-.1	1.4	5.0	9.8
Tu	14.6	18.3	19.8	18.8	15.3	10.3	4.7	.2	-1.9	-1.0	2.5	7.6
26	13.1	17.7	20.3	20.1	17.4	12.6	6.9	1.7	-1.4	-1.6	1.2	5.8
W	11.3	16.3	19.7	20.4	18.4	14.1	8.5	2.9	-.9	-1.9	.3	4.9
27	10.6	16.1	20.0	21.4	19.9	15.8	10.1	4.1	-.8	-3.0	-2.0	1.7
Th	7.1	12.8	17.5	20.1	20.0	17.2	12.4	6.8	1.8	-1.0	-.7	2.6
28	7.8	13.5	18.4	21.3	21.4	18.6	13.6	7.5	1.7	-2.3	-3.5	-1.5
F	2.8	8.3	13.7	17.8	19.6	18.8	15.5	10.7	5.6	1.6	-.1	1.3
29	5.2	10.4	15.6	19.5	21.3	20.3	16.7	11.4	5.5	.4	-2.7	-2.9
Sa	-.4	4.1	9.2	13.8	17.1	18.3	17.1	13.8	9.5	5.3	2.3	1.6
30	3.6	7.6	12.3	16.6	19.5	20.2	18.5	14.6	9.6	4.4	.2	-2.0
Su	-1.6	1.0	5.0	9.3	13.1	15.7	16.5	15.2	12.5	9.0	5.8	3.7
31	3.7	5.8	9.3	13.1	16.4	18.4	18.5	16.5	13.0	8.7	4.5	1.1
M	-.5	-.1	2.1	5.3	8.7	11.8	13.9	14.6	13.8	11.9	9.4	7.0

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

Lat. 59° 27'N Long. 151° 43'W

APRIL

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	5.5	5.5	7.2	9.9	12.7	15.2	16.6	16.6	15.0	12.2	8.8	5.5
Tu	2.7	1.2	1.2	2.6	4.8	7.5	10.1	12.3	13.3	13.2	12.1	10.4
2	8.5	7.0	6.7	7.6	9.3	11.4	13.4	14.8	15.1	14.2	12.3	9.8
W	7.0	4.4	2.5	1.9	2.4	3.9	6.2	8.8	11.2	12.9	13.5	13.1
3	11.7	9.8	7.9	6.9	6.9	7.9	9.6	11.5	13.3	14.4	14.3	13.2
Th	11.2	8.5	5.6	3.1	1.8	1.7	2.9	5.2	8.2	11.2	13.5	14.6
4	14.4	12.9	10.5	7.9	6.0	5.4	6.0	7.8	10.2	12.7	14.5	15.1
F	14.5	12.5	9.5	6.0	2.9	1.1	.8	2.2	5.0	8.6	12.2	14.9
5	16.1	15.7	13.5	10.3	6.8	4.4	3.5	4.3	6.6	9.8	13.0	15.4
Sa	16.3	15.6	13.3	9.6	5.4	2.0	.1	.2	2.3	5.9	10.2	14.1
6	16.7	17.5	16.3	13.2	9.0	4.9	2.3	1.7	3.1	6.3	10.3	14.0
Su	16.6	17.4	16.2	13.2	8.8	4.2	.8	-.5	.5	3.4	7.8	12.5
7	16.3	18.4	18.3	15.9	11.7	6.8	2.6	.3	.5	2.9	6.9	11.6
M	15.6	17.9	18.1	16.1	12.2	7.3	2.7	-.1	-.4	1.7	5.6	10.5
8	15.2	18.4	19.4	18.0	14.4	9.4	4.2	.3	-1.0	.2	3.7	8.5
Tu	13.3	17.1	18.7	18.0	15.0	10.5	5.5	1.5	-.3	.6	3.8	8.4
9	13.4	17.5	19.7	19.4	16.6	12.0	6.5	1.6	-1.3	-1.4	1.0	5.4
W	10.5	15.1	18.1	18.8	17.1	13.3	8.5	3.9	.9	.5	2.6	6.6
10	11.5	16.0	19.1	19.9	18.1	14.3	9.1	3.8	-.3	-1.9	-.7	2.7
Th	7.5	12.4	16.4	18.4	18.0	15.4	11.3	6.7	2.9	1.2	2.1	5.2
11	9.6	14.2	17.8	19.5	18.9	16.0	11.5	6.3	1.7	-1.2	-1.4	.8
F	4.8	9.5	13.9	17.0	17.9	16.5	13.4	9.4	5.4	2.8	2.4	4.4
12	8.0	12.2	16.0	18.4	18.8	17.0	13.3	8.7	4.1	.5	-1.0	-.1
Sa	2.9	6.9	11.1	14.6	16.6	16.5	14.6	11.4	7.9	4.9	3.5	4.3
13	6.9	10.5	14.0	16.8	18.0	17.2	14.6	10.7	6.5	2.8	.5	.1
Su	1.8	4.9	8.5	11.9	14.4	15.5	14.8	12.7	9.9	7.2	5.3	4.9
14	6.4	9.1	12.2	14.8	16.5	16.7	15.2	12.3	8.7	5.2	2.6	1.3
M	1.7	3.7	6.4	9.3	11.8	13.5	13.9	13.1	11.3	9.1	7.3	6.3
15	6.6	8.2	10.6	12.9	14.7	15.4	15.0	13.2	10.5	7.6	5.0	3.2
Tu	2.6	3.3	5.0	7.2	9.3	11.1	12.3	12.5	11.8	10.5	9.1	8.0
16	7.5	8.0	9.4	11.2	12.7	13.8	14.1	13.4	11.8	9.6	7.4	5.5
W	4.2	3.7	4.3	5.5	7.1	8.7	10.2	11.3	11.7	11.4	10.6	9.7
17	8.9	8.5	8.8	9.6	10.8	11.8	12.6	12.9	12.5	11.3	9.7	7.9
Th	6.3	5.1	4.4	4.5	5.3	6.5	7.9	9.5	10.9	11.7	11.8	11.4
18	10.6	9.6	8.8	8.5	8.9	9.6	10.6	11.5	12.2	12.3	11.7	10.5
F	8.9	7.1	5.4	4.3	3.9	4.5	5.7	7.5	9.6	11.4	12.6	12.9
19	12.4	11.3	9.7	8.2	7.3	7.3	8.1	9.4	11.0	12.4	13.1	12.8
Sa	11.7	9.8	7.4	5.1	3.4	2.9	3.6	5.3	7.8	10.6	13.0	14.3
20	14.4	13.3	11.3	8.7	6.5	5.3	5.4	6.6	8.7	11.2	13.4	14.5
Su	14.3	12.8	10.3	7.1	4.1	2.1	1.8	3.1	5.7	9.1	12.6	15.2
21	16.2	15.6	13.5	10.3	6.8	4.0	2.8	3.4	5.5	8.7	12.2	14.9
M	16.3	15.8	13.6	10.2	6.2	2.7	.8	1.1	3.4	7.1	11.3	15.2
22	17.6	17.9	16.2	12.8	8.4	4.1	1.1	.3	1.8	5.2	9.4	13.7
Tu	16.8	17.9	16.8	13.8	9.4	4.8	1.2	-.1	1.1	4.6	9.2	14.0
23	17.9	19.6	18.9	15.9	11.2	5.8	1.1	-1.7	-1.6	1.0	5.5	10.7
W	15.4	18.4	19.1	17.2	13.3	8.3	3.4	.1	-.3	2.0	6.5	11.8
24	16.8	20.1	21.0	19.0	14.7	8.9	3.0	-1.7	-3.8	-2.7	1.1	6.4
Th	12.1	16.8	19.5	19.5	16.9	12.3	7.0	2.3	-.3	.3	3.7	8.8
25	14.4	19.0	21.6	21.3	18.1	12.8	6.5	.4	-3.7	-4.8	-2.7	1.8
F	7.6	13.3	17.7	19.8	19.1	15.9	11.1	5.8	1.7	.1	1.6	5.7
26	11.1	16.4	20.3	21.9	20.5	16.5	10.7	4.3	-1.2	-4.6	-4.8	-1.9
Sa	3.0	8.7	14.0	17.8	19.2	18.0	14.6	9.9	5.2	1.9	1.2	3.4
27	7.7	12.8	17.5	20.5	21.2	19.1	14.7	8.9	3.0	-1.8	-4.3	-3.8
Su	-.6	4.1	9.3	14.0	17.1	18.0	16.6	13.3	9.1	5.2	2.7	2.7
28	5.1	9.2	13.6	17.4	19.7	19.6	17.2	13.0	7.7	2.6	-1.3	-3.1
M	-2.2	.8	4.9	9.4	13.3	15.9	16.5	15.2	12.4	9.0	5.8	4.0
29	4.2	8.5	9.9	13.5	16.4	18.0	17.7	15.5	11.8	7.4	3.2	.0
Tu	-1.3	-.6	1.9	5.2	8.9	12.2	14.5	15.2	14.3	12.2	9.4	6.8
30	5.3	5.4	7.1	9.6	12.4	14.8	16.1	15.9	14.2	11.3	7.8	4.4
W	1.7	.4	.7	2.5	5.1	8.1	11.1	13.4	14.3	14.0	12.5	10.3

Time meridian 135° W. 0 is midnight, 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

SELDOVIA, ALASKA, 1986

Lat. 59° 27'N Long. 151° 43'W

MAY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 Th	7.9 5.9	6.3 3.3	5.9 1.7	6.8 1.5	8.6 2.6	10.7 4.7	12.8 7.5	14.3 10.4	14.6 12.9	13.6 14.3	11.5 14.4	8.8 13.3
2 F	11.2 10.0	8.7 7.1	6.6 4.3	5.6 2.4	5.8 1.8	7.0 2.5	8.9 4.4	11.2 7.3	13.0 10.5	13.9 13.3	13.6 14.9	12.3 15.2
3 Sa	14.1 13.2	11.8 10.9	8.8 7.8	6.1 4.7	4.5 2.5	4.2 1.7	5.3 2.4	7.4 4.6	10.1 7.9	12.5 11.4	14.0 14.4	14.2 16.1
4 Su	16.2 15.0	14.6 13.9	11.6 11.3	8.0 7.8	4.7 4.5	2.8 2.2	2.6 1.6	4.0 2.8	6.6 5.6	9.9 9.3	12.8 13.1	14.7 15.9
5 M	17.2 15.6	16.7 15.8	14.3 14.2	10.6 11.1	6.3 7.2	2.8 3.8	1.1 1.8	1.3 1.9	3.3 3.8	6.7 7.2	10.6 11.3	13.8 15.1
6 Tu	17.5 15.1	18.0 16.6	16.5 16.1	13.2 13.8	8.7 10.2	4.1 6.1	.8 3.0	-.4 1.8	.7 2.7	3.6 5.5	7.7 9.5	11.9 13.7
7 W	17.0 13.6	18.5 16.4	18.0 17.2	15.4 15.9	11.2 12.9	6.2 8.8	1.7 4.9	-.9 2.5	-1.1 2.2	1.0 4.2	4.8 7.7	9.3 11.9
8 Th	15.9 11.3	18.4 15.1	18.8 17.2	17.1 17.1	13.5 15.0	8.6 11.5	3.6 7.4	-.3 4.0	-1.9 2.5	-.9 3.3	2.2 6.1	6.6 10.1
9 F	14.2 8.6	17.5 13.0	19.0 16.2	18.2 17.4	15.4 16.4	11.0 13.7	5.9 9.9	1.3 6.1	-1.5 3.5	-1.9 3.1	.1 4.9	3.9 8.3
10 Sa	12.3 5.9	16.0 10.4	18.3 14.2	18.6 16.6	16.8 16.8	13.1 15.1	8.4 12.1	3.6 8.4	-.2 5.3	-1.9 3.7	-1.1 4.3	1.8 6.8
11 Su	10.4 3.7	14.1 7.8	17.0 11.7	18.3 14.8	17.5 16.2	14.8 15.7	10.7 13.6	6.2 10.6	2.0 7.4	-.8 5.1	-1.3 4.4	.4 5.8
12 M	8.7 2.1	12.1 5.5	15.1 9.1	17.1 12.3	17.4 14.6	15.8 15.3	12.6 14.3	8.6 12.1	4.5 9.4	1.2 6.9	-.5 5.4	-.1 5.6
13 Tu	7.4 1.4	10.2 3.7	13.1 6.8	15.3 9.8	16.4 12.3	16.0 13.9	13.9 14.1	10.7 13.0	7.0 11.1	3.6 8.8	1.2 7.0	.4 6.2
14 W	6.8 1.5	8.7 2.7	11.1 4.9	13.3 7.5	14.9 10.0	15.4 12.0	14.5 13.2	12.3 13.2	9.3 12.2	6.1 10.5	3.4 8.8	1.7 7.5
15 Th	7.0 2.5	7.7 2.5	9.4 3.6	11.3 5.5	12.9 7.7	14.0 9.9	14.1 11.7	13.1 12.7	11.1 12.8	8.5 11.9	5.9 10.5	3.8 9.1
16 F	7.9 4.4	7.5 3.2	8.0 3.1	9.2 4.1	10.7 5.8	12.0 7.8	12.9 9.9	13.1 11.7	12.3 12.8	10.6 13.0	8.5 12.2	6.2 10.9
17 Sa	9.3 6.9	8.0 4.9	7.2 3.6	7.4 3.3	8.3 4.1	9.6 5.8	11.0 8.0	12.1 10.3	12.6 12.4	12.2 13.6	10.9 13.8	9.0 12.9
18 Su	11.2 9.8	9.2 7.5	7.4 5.2	6.1 3.5	6.0 3.0	6.8 3.9	8.3 5.9	10.0 8.5	11.7 11.3	12.8 13.7	12.8 15.0	11.7 14.9
19 M	13.5 12.8	11.3 10.7	8.5 7.9	5.9 5.1	4.2 3.1	4.0 2.6	5.0 3.8	7.0 6.3	9.5 9.6	12.0 12.9	13.6 15.5	13.9 16.6
20 Tu	16.0 15.3	13.9 14.0	10.7 11.4	7.0 8.0	3.7 4.6	1.8 2.4	1.7 2.2	3.3 4.0	6.2 7.2	9.6 11.2	12.8 15.0	14.9 17.6
21 W	18.3 16.4	16.9 16.7	13.7 15.0	9.5 11.7	4.8 7.6	1.1 3.9	-.8 1.8	-.4 2.0	2.1 4.5	6.0 8.6	10.3 13.1	14.1 17.1
22 Th	19.4 15.5	19.5 17.8	17.1 17.7	13.0 15.4	7.7 11.5	2.4 7.0	-1.6 3.1	-3.1 1.3	-1.9 2.2	1.5 5.5	6.3 10.2	11.3 15.1
23 F	19.0 12.5	20.8 16.7	20.1 18.7	16.8 18.1	11.7 15.3	5.7 10.9	.0 6.1	-3.7 2.5	-4.7 1.2	-2.6 2.8	1.7 6.8	7.1 11.8
24 Sa	16.7 8.1	20.3 13.5	21.5 17.4	19.9 19.0	15.9 18.0	10.1 14.7	3.7 10.1	-1.8 5.4	-5.1 2.1	-5.3 1.5	-2.5 3.7	2.3 8.0
25 Su	13.2 3.3	17.8 9.0	20.8 14.1	21.4 17.6	19.2 18.7	14.6 17.3	8.6 13.8	2.3 9.3	-2.8 4.9	-5.5 2.2	-5.0 2.2	-1.7 4.8
26 M	9.1 -.5	14.0 4.4	18.1 9.6	20.5 14.2	20.5 17.2	17.9 17.9	13.2 16.3	7.3 13.0	1.5 8.7	-3.0 4.9	-4.9 2.7	-3.9 3.1
27 Tu	5.7 -2.4	9.8 .8	14.1 5.2	17.6 9.9	19.5 14.0	19.1 16.5	16.4 17.0	11.9 15.4	6.6 12.3	1.4 8.6	-2.3 5.2	-3.7 3.5
28 W	4.0 -2.0	6.3 -.8	9.8 2.1	13.5 5.9	16.4 10.0	17.9 13.5	17.4 15.7	14.9 16.1	11.0 14.7	6.3 12.0	2.0 8.7	-1.1 5.8
29 Th	4.3 .5	4.6 -.3	6.5 .7	9.3 3.1	12.3 6.4	14.8 10.0	16.1 13.2	15.7 15.2	13.7 15.6	10.5 14.5	6.7 12.1	3.0 9.1
30 F	6.4 4.2	4.8 2.0	4.7 1.2	6.0 1.9	8.2 3.9	10.8 6.8	13.1 10.1	14.4 13.1	14.4 15.0	12.9 15.5	10.4 14.5	7.3 12.3
31 Sa	9.5 8.1	6.7 5.3	4.8 3.2	4.3 2.3	5.1 2.8	6.9 4.6	9.3 7.3	11.6 10.5	13.2 13.4	13.6 15.2	12.7 15.7	10.8 14.7

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

Lat. 59° 27' N Long. 151° 43' W

JUNE

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 Su	12.5 11.3	9.5 8.9	6.4 6.2	4.2 4.0	3.4 3.1	3.9 3.6	5.7 5.4	8.1 8.1	10.7 11.3	12.6 14.1	13.4 15.8	12.9 16.0
2 M	14.8 13.3	12.3 11.8	8.9 9.3	5.6 6.5	3.2 4.4	2.2 3.6	2.8 4.3	4.8 6.3	7.6 9.3	10.5 12.5	12.7 15.1	13.7 16.4
3 Tu	16.2 14.3	14.5 13.8	11.5 12.1	7.7 9.3	4.1 6.4	1.7 4.5	1.1 4.0	2.1 5.1	4.5 7.5	7.8 10.7	11.0 13.9	13.3 16.2
4 W	17.0 14.3	16.1 15.0	13.8 14.1	10.1 11.9	6.0 8.9	2.4 6.0	.3 4.3	.2 4.4	1.9 6.1	5.0 9.0	8.7 12.4	12.1 15.4
5 Th	17.1 13.4	17.2 15.3	15.6 15.5	12.4 14.1	8.3 11.3	4.0 8.0	.7 5.4	.7 4.2	-1.7 5.0	2.4 7.3	6.1 10.6	10.1 14.0
6 F	16.7 11.7	17.7 14.7	17.0 16.1	14.5 15.6	10.7 13.5	6.2 10.3	2.0 7.0	-1.7 4.7	-1.3 4.3	.3 5.8	3.5 8.7	7.6 12.2
7 Sa	15.5 9.3	17.6 13.2	17.9 15.7	16.2 16.3	13.0 15.1	8.6 12.5	4.1 9.1	.3 6.1	-1.6 4.4	-1.1 4.8	1.3 7.0	5.1 10.2
8 Su	13.7 6.7	16.6 10.9	18.0 14.3	17.4 16.1	15.0 16.0	11.1 14.2	6.6 11.2	2.2 7.9	-1.8 5.3	-1.7 4.4	-.4 5.6	2.7 8.3
9 M	11.7 4.3	14.9 8.4	17.2 12.2	17.8 15.0	16.4 16.0	13.4 15.3	9.2 13.1	4.7 10.0	.9 7.0	-1.3 5.0	-1.2 4.9	.9 6.7
10 Tu	9.6 2.3	12.9 5.9	15.6 9.7	17.2 13.0	17.1 15.1	15.1 15.6	11.6 14.3	7.4 11.9	3.2 8.9	.1 6.4	-1.2 5.1	-.3 5.7
11 W	7.8 1.0	10.7 3.9	13.6 7.4	15.8 10.8	16.7 13.5	15.9 15.0	13.5 14.9	9.9 13.3	5.9 10.8	2.3 8.2	-.1 6.2	-.5 5.5
12 Th	6.5 .5	8.7 2.4	11.4 5.3	13.8 8.6	15.5 11.6	15.8 13.8	14.6 14.8	11.9 14.2	8.4 12.5	4.8 10.1	1.9 7.8	.3 6.1
13 F	5.9 1.0	7.0 1.6	9.2 3.7	11.5 6.6	13.5 9.5	14.8 12.2	14.8 14.1	13.3 14.6	10.7 13.8	7.5 11.9	4.3 9.6	2.0 7.5
14 Sa	6.1 2.5	5.9 1.8	7.1 2.7	9.0 4.9	11.1 7.6	12.8 10.4	13.9 12.9	13.8 14.4	12.4 14.7	10.0 13.6	7.1 11.6	4.4 9.3
15 Su	7.1 4.9	5.7 3.2	5.5 2.7	6.5 3.6	8.2 5.8	10.2 8.5	11.9 11.3	13.1 13.6	13.1 15.0	12.0 15.0	9.8 13.7	7.3 11.5
16 M	9.0 8.0	6.5 5.7	4.9 3.9	4.4 3.4	5.3 4.3	7.0 6.5	9.1 9.3	11.1 12.2	12.6 14.6	13.0 15.9	12.2 15.7	10.3 14.1
17 Tu	11.5 11.3	8.4 8.9	5.5 6.4	3.5 4.4	2.8 3.7	3.6 4.6	5.5 7.0	8.0 10.0	10.5 13.2	12.6 15.8	13.4 17.0	12.9 16.5
18 W	14.5 14.1	11.4 12.4	7.7 9.8	4.1 6.9	1.6 4.5	.8 3.7	1.7 4.7	4.1 7.4	7.2 10.8	10.4 14.3	13.1 17.1	14.4 18.2
19 Th	17.4 15.6	14.8 15.3	11.0 13.4	6.6 10.4	2.4 6.9	-.5 4.3	-1.3 3.4	.0 4.7	3.0 7.7	6.8 11.6	10.8 15.5	14.0 18.4
20 F	19.4 15.1	18.2 16.8	15.0 16.4	10.4 14.1	5.3 10.5	.6 6.6	-2.5 3.7	-3.1 3.0	-1.3 4.6	2.4 8.1	7.0 12.5	11.6 16.7
21 Sa	19.5 12.6	20.3 16.3	18.6 17.9	14.8 17.1	9.6 14.3	3.9 10.1	-1.2 5.9	-4.1 3.0	-4.3 2.5	-1.9 4.7	2.4 8.6	7.6 13.3
22 Su	17.6 8.6	20.4 13.7	20.8 17.3	18.7 18.5	14.3 17.2	8.6 13.9	2.5 9.4	-2.5 5.1	-5.2 2.4	-4.8 2.3	-1.8 4.9	3.0 9.2
23 M	14.0 4.1	18.3 9.7	20.8 14.7	20.8 17.9	18.2 18.6	13.5 16.9	7.5 13.3	1.4 8.6	-3.4 4.4	-5.5 2.0	-4.5 2.4	-1.0 5.3
24 Tu	9.7 .3	14.4 5.4	18.4 10.8	20.6 15.4	20.2 18.1	17.3 18.3	12.4 16.2	6.4 12.4	.6 7.8	-3.5 3.9	-5.0 2.0	-3.5 2.8
25 W	5.7 -1.9	10.0 1.9	14.4 6.8	18.0 11.8	19.7 15.8	19.0 17.9	15.9 17.7	11.1 15.4	5.5 11.6	.4 7.3	-3.0 3.8	-3.8 2.4
26 Th	3.3 -2.1	6.1 .0	10.0 3.7	14.0 8.1	17.0 12.5	18.3 15.9	17.4 17.5	14.4 16.9	10.0 14.5	5.1 10.9	.7 7.0	-1.9 4.0
27 F	2.8 -.3	3.8 -1.1	6.3 2.0	9.7 5.4	13.1 9.3	15.7 13.1	16.6 15.8	15.7 16.9	13.0 16.1	9.2 13.7	5.0 10.4	1.6 6.9
28 Sa	4.3 2.8	3.3 1.5	4.1 2.0	6.2 3.9	9.0 6.9	11.9 10.3	14.1 13.5	14.9 15.6	14.1 16.3	11.9 15.3	8.8 13.1	5.5 10.0
29 Su	6.9 6.3	4.5 4.2	3.5 3.3	4.1 3.8	5.7 5.5	8.1 8.1	10.7 11.0	12.7 13.7	13.5 15.4	13.0 15.8	11.3 14.7	8.9 12.6
30 M	9.8 9.4	6.8 7.3	4.5 5.5	3.4 4.7	3.7 5.2	5.1 6.7	7.2 9.0	9.6 11.6	11.6 14.0	12.6 15.3	12.4 15.4	11.3 14.3

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

SELDOVIA, ALASKA, 1986

Lat. 59° 27'N Long. 151° 43'W

JULY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	12.2	9.4	6.4	4.1	2.9	3.1	4.4	6.5	9.0	11.2	12.4	12.5
Tu	11.7	10.1	8.1	6.5	5.7	6.2	7.6	9.8	12.2	14.3	15.4	15.3
2	14.0	11.8	8.8	5.7	3.3	2.1	2.4	3.8	6.2	9.0	11.3	12.7
W	13.0	12.3	10.7	8.6	6.9	6.2	6.7	8.2	10.4	12.9	14.8	15.7
3	15.3	13.8	11.2	7.9	4.6	2.2	1.2	1.8	3.7	6.5	9.6	12.1
Th	13.5	13.8	12.8	10.9	8.6	6.8	6.2	6.9	8.7	11.2	13.7	15.6
4	16.2	15.4	13.3	10.3	6.6	3.2	1.0	.4	1.5	4.0	7.3	10.7
F	13.2	14.5	14.4	13.0	10.6	8.0	6.2	5.9	7.0	9.3	12.1	14.7
5	16.4	16.6	15.3	12.7	9.0	5.0	1.7	-.2	-.1	1.7	4.8	8.6
Sa	12.1	14.5	15.4	14.7	12.6	9.8	7.1	5.5	5.7	7.4	10.1	13.2
6	15.8	17.2	16.9	14.9	11.6	7.4	3.3	.2	-1.0	-.2	2.4	6.1
Su	10.1	13.6	15.6	15.9	14.5	11.8	8.6	6.0	4.9	5.7	8.0	11.2
7	14.4	16.9	17.8	16.8	14.1	10.1	5.6	1.5	-1.0	-1.4	.4	3.6
M	7.8	11.8	15.0	16.4	15.9	13.8	10.6	7.3	5.0	4.6	6.1	9.0
8	12.4	15.6	17.7	17.9	16.2	12.8	8.3	3.7	.0	-1.7	-1.1	1.5
Tu	5.3	9.6	13.5	16.0	16.7	15.4	12.6	9.2	6.0	4.3	4.7	6.9
9	10.1	13.6	16.5	18.0	17.5	15.0	11.0	6.4	2.0	-.9	-1.7	-.2
W	3.1	7.3	11.4	14.8	16.6	16.4	14.4	11.3	7.8	5.1	4.0	5.1
10	7.8	11.2	14.5	16.9	17.7	16.5	13.4	9.2	4.7	.9	-1.2	-1.0
Th	1.4	5.1	9.3	13.1	15.8	16.8	15.8	13.2	9.8	6.6	4.4	4.1
11	5.8	8.7	12.1	15.0	16.8	16.9	15.1	11.7	7.5	3.4	.4	-.7
F	.4	3.4	7.2	11.2	14.5	16.4	16.5	14.8	11.9	8.5	5.6	4.0
12	4.3	6.4	9.3	12.4	14.9	16.1	15.7	13.6	10.2	6.3	2.8	.6
Sa	.4	2.2	5.4	9.2	12.8	15.4	16.6	16.0	13.8	10.7	7.5	4.9
13	3.8	4.5	6.6	9.4	12.1	14.2	15.1	14.5	12.3	9.2	5.8	3.0
Su	1.6	2.0	4.1	7.4	10.9	14.0	16.0	16.6	15.4	12.9	9.8	6.7
14	4.4	3.6	4.3	6.3	8.9	11.4	13.2	14.0	13.5	11.6	8.9	6.1
M	3.9	2.9	3.6	5.8	8.8	12.0	14.7	16.3	16.5	15.0	12.3	9.2
15	6.2	4.0	3.1	3.7	5.5	7.8	10.2	12.2	13.2	12.9	11.5	9.3
Tu	7.0	5.1	4.2	4.9	6.9	9.7	12.7	15.1	16.5	16.5	14.9	12.2
16	9.0	5.9	3.5	2.3	2.6	4.2	6.5	9.0	11.3	12.8	13.0	12.1
W	10.3	8.2	6.3	5.2	5.6	7.4	10.0	12.9	15.4	16.9	16.8	15.2
17	12.5	9.1	5.6	2.7	1.1	1.1	2.5	5.0	8.0	10.9	13.0	13.8
Th	13.2	11.6	9.3	7.1	5.6	5.6	7.2	9.9	12.9	15.7	17.4	17.5
18	16.0	13.1	9.3	5.2	1.7	-.4	-.6	1.0	3.9	7.5	11.1	13.7
F	15.0	14.6	12.8	10.1	7.2	5.3	5.0	6.6	9.5	13.0	16.2	18.2
19	18.5	16.9	13.6	9.3	4.5	.4	-2.1	-2.2	-.3	3.3	7.6	11.8
Sa	15.0	16.4	15.9	13.6	10.2	6.7	4.4	4.1	5.9	9.2	13.2	16.9
20	19.2	19.6	17.7	14.0	8.9	3.4	-1.1	-3.5	-3.4	-.9	3.4	8.4
Su	13.1	16.5	17.7	16.8	13.8	9.7	5.7	3.2	3.0	5.3	9.2	13.7
21	17.7	20.2	20.4	18.1	13.8	8.1	2.2	-2.4	-4.6	-3.9	-.6	4.2
M	9.8	14.7	17.9	18.7	17.1	13.4	8.7	4.4	2.0	2.3	5.1	9.5
22	14.3	18.5	20.8	20.6	17.8	13.0	6.9	.9	-3.4	-4.9	-3.4	.4
Tu	5.8	11.5	16.3	19.0	19.1	16.7	12.4	7.3	3.1	1.1	2.0	5.3
23	10.0	15.0	19.0	20.9	20.1	16.9	11.6	5.5	-.1	-3.7	-4.4	-2.1
W	2.3	7.8	13.3	17.5	19.5	18.8	15.7	11.0	6.0	2.2	.8	2.3
24	5.9	10.6	15.3	18.9	20.2	18.9	15.3	10.1	4.3	-.6	-3.2	-2.9
Th	.0	4.6	10.0	14.9	18.3	19.3	17.9	14.3	9.6	4.9	1.8	1.1
25	3.0	6.6	11.1	15.3	18.2	18.9	17.2	13.5	8.6	3.6	-.3	-1.8
F	-.7	2.6	7.1	11.9	16.0	18.4	18.5	16.5	12.8	8.3	4.3	1.9
26	1.8	3.9	7.3	11.2	14.7	16.9	17.1	15.2	11.7	7.5	3.5	.8
Sa	.3	2.0	5.2	9.3	13.3	16.4	17.8	17.3	14.9	11.4	7.4	4.2
27	2.5	2.7	4.7	7.7	11.0	13.8	15.3	15.1	13.3	10.4	7.1	4.2
Su	2.6	2.7	4.6	7.5	10.9	14.1	16.2	16.9	15.8	13.4	10.3	7.0
28	4.4	3.2	3.6	5.3	7.7	10.3	12.5	13.7	13.4	12.0	9.8	7.4
M	5.4	4.5	5.0	6.8	9.2	11.9	14.2	15.6	15.7	14.5	12.3	9.6
29	6.9	4.8	3.8	4.1	5.4	7.2	9.4	11.3	12.3	12.3	11.4	9.9
Tu	8.3	6.9	6.3	6.8	8.2	10.2	12.2	13.9	14.9	14.8	13.6	11.7
30	9.4	7.1	5.2	4.1	4.1	5.0	6.6	8.5	10.3	11.5	11.9	11.5
W	10.6	9.3	8.2	7.6	7.9	8.9	10.4	12.1	13.6	14.4	14.3	13.3
31	11.6	9.5	7.2	5.1	3.9	3.6	4.3	5.8	7.9	10.0	11.5	12.2
Th	12.2	11.5	10.2	8.9	8.1	8.1	8.9	10.3	12.0	13.5	14.4	14.4

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

SELDovia, ALASKA, 1986

55

Lat. 59° 27' N Long. 151° 43' W

AUGUST

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	13.5	11.8	9.5	6.9	4.5	3.1	2.8	3.6	5.4	7.8	10.3	12.2
F	13.2	13.2	12.2	10.6	8.9	7.8	7.7	8.5	10.1	12.1	13.9	15.0
2	15.0	14.0	12.0	9.2	6.1	3.4	1.9	1.8	3.0	5.4	8.5	11.4
Sa	13.4	14.3	14.0	12.5	10.3	8.2	6.9	6.9	8.1	10.2	12.7	14.8
3	16.0	15.8	14.4	11.7	8.2	4.6	1.8	.6	1.0	3.0	6.2	9.8
Su	12.9	14.9	15.4	14.4	12.2	9.3	6.9	5.7	6.2	8.1	10.8	13.8
4	16.1	17.2	16.5	14.3	10.9	6.7	2.8	.2	-.5	-.9	3.8	7.7
M	11.7	14.8	16.3	16.1	14.1	11.1	7.7	5.3	4.7	5.9	8.6	11.9
5	15.2	17.5	18.1	16.7	13.6	9.3	4.6	.8	-1.2	-.8	1.5	5.3
Tu	9.8	13.8	16.5	17.3	16.0	13.2	9.4	5.9	3.9	4.0	6.2	9.6
6	13.4	16.8	18.7	18.5	16.2	12.2	7.3	2.5	-.8	-1.8	-.3	3.1
W	7.6	12.2	16.0	17.9	17.6	15.2	11.5	7.4	4.2	2.9	4.0	6.9
7	10.9	14.9	18.0	19.2	18.1	14.9	10.2	5.1	.7	-1.7	-1.5	1.1
Th	5.4	10.2	14.6	17.6	18.5	17.0	13.7	9.5	5.4	2.8	2.4	4.5
8	8.1	12.3	16.1	18.6	18.9	17.0	13.1	8.1	3.2	-.4	-1.6	-.2
F	3.4	8.1	12.8	16.6	18.6	18.3	15.8	11.8	7.4	3.8	1.9	2.5
9	5.3	9.3	13.4	16.7	18.4	18.0	15.3	11.1	6.3	2.1	-.5	-.5
Sa	2.0	6.1	10.8	15.0	17.9	18.8	17.4	14.1	9.8	5.6	2.6	1.7
10	3.0	6.2	10.1	13.8	16.5	17.5	16.5	13.5	9.4	5.2	1.9	-.5
Su	1.4	4.5	8.8	13.0	16.5	18.4	18.2	16.0	12.3	8.1	4.4	2.1
11	1.8	3.6	6.8	10.4	13.6	15.7	16.2	14.9	12.0	8.5	5.1	2.7
M	2.1	3.7	6.9	10.9	14.5	17.1	18.1	17.3	14.6	10.9	7.1	3.9
12	2.1	2.2	4.0	6.9	9.9	12.6	14.3	14.7	13.5	11.2	8.3	5.7
Tu	4.1	4.1	5.8	8.7	12.1	15.0	17.0	17.5	16.3	13.7	10.2	6.8
13	4.0	2.4	2.4	3.9	6.2	8.8	11.2	12.9	13.5	12.8	11.1	9.0
W	7.1	5.8	5.7	7.1	9.6	12.3	14.8	16.4	16.8	15.7	13.4	10.3
14	7.2	4.5	2.7	2.3	3.2	5.0	7.3	9.7	11.7	12.8	12.8	11.9
Th	10.3	8.6	7.1	6.7	7.6	9.4	11.8	14.1	15.8	16.5	15.8	13.9
15	11.1	8.0	5.0	2.6	1.5	1.9	3.4	5.8	8.6	11.2	13.0	13.7
F	13.2	11.8	9.8	7.8	6.7	7.0	8.5	10.8	13.4	15.6	16.8	16.6
16	15.0	12.3	8.8	5.1	2.0	.3	.3	1.9	4.6	8.1	11.5	14.0
Sa	15.2	14.8	13.1	10.4	7.6	5.8	5.7	7.2	9.8	12.9	15.8	17.6
17	17.8	16.3	13.3	9.1	4.6	.8	-1.2	-1.2	.8	4.3	8.6	12.7
Su	15.6	16.9	16.1	13.7	10.1	6.5	4.3	4.1	5.9	9.1	13.0	16.6
18	18.9	19.2	17.4	13.7	8.8	3.5	-.7	-2.7	-2.2	.5	4.9	10.0
M	14.5	17.5	18.4	16.9	13.5	9.0	4.8	2.5	2.6	5.0	9.1	13.7
19	17.8	20.1	20.2	17.8	13.4	7.7	2.0	-2.1	-3.6	-2.3	1.4	6.5
Tu	12.1	16.7	19.2	19.3	16.8	12.4	7.2	2.9	.9	1.7	4.9	9.6
20	14.7	18.9	21.0	20.5	17.4	12.2	6.1	.5	-3.1	-3.6	-1.3	3.2
W	8.9	14.5	18.6	20.3	19.3	15.8	10.6	5.2	1.2	-.1	1.6	5.5
21	10.7	15.8	19.7	21.1	19.8	16.0	10.5	4.4	-.6	-3.1	-2.5	.8
Th	5.9	11.6	16.7	19.9	20.5	18.4	14.0	8.5	3.4	.1	-.2	2.2
22	6.6	11.9	16.7	19.8	20.4	18.3	14.1	8.5	3.0	-.9	-2.1	-.4
F	3.6	8.8	14.1	18.3	20.3	19.6	16.6	11.8	6.5	2.1	-.1	.5
23	3.5	8.0	12.9	16.9	19.1	18.9	16.3	12.0	6.9	2.5	-.1	-.1
Sa	2.5	6.7	11.6	16.0	18.9	19.6	17.9	14.3	9.7	5.0	1.6	.5
24	1.8	5.1	9.2	13.4	16.5	17.8	16.8	14.1	10.1	6.0	2.8	1.6
Su	2.6	5.6	9.5	13.6	16.8	18.5	18.1	15.7	12.1	7.9	4.2	1.9
25	1.7	3.4	6.5	10.0	13.2	15.4	15.9	14.7	12.2	9.0	6.0	4.0
M	3.8	5.4	8.3	11.6	14.6	16.7	17.2	16.1	13.6	10.3	7.0	4.3
26	2.9	3.2	4.9	7.4	10.1	12.4	13.9	14.1	12.9	10.9	8.7	6.8
Tu	5.8	6.2	7.8	10.2	12.6	14.6	15.8	15.7	14.3	12.0	9.4	6.9
27	4.9	4.1	4.4	5.7	7.6	9.5	11.3	12.4	12.5	11.8	10.6	9.2
W	8.1	7.6	8.1	9.3	11.0	12.7	13.9	14.6	14.3	13.0	11.2	9.2
28	7.4	5.8	5.1	5.1	5.9	7.1	8.5	10.1	11.2	11.7	11.6	11.0
Th	10.2	9.4	9.0	9.1	9.9	10.9	12.0	13.0	13.6	13.5	12.6	11.3
29	9.8	8.1	6.5	5.4	5.0	5.3	6.1	7.5	9.2	10.8	11.8	12.1
F	12.0	11.3	10.4	9.5	9.2	9.4	10.2	11.2	12.4	13.2	13.5	13.1
30	12.1	10.5	8.6	6.5	4.9	4.1	4.2	5.1	6.9	9.1	11.2	12.7
Sa	13.3	13.1	12.1	10.6	9.1	8.3	8.4	9.2	10.6	12.3	13.7	14.4
31	14.1	13.0	11.0	8.4	5.7	3.6	2.7	3.0	4.6	7.1	10.0	12.5
Su	14.2	14.6	13.9	12.1	9.8	7.9	6.9	7.2	8.5	10.7	13.0	15.0

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

SELDovia, ALASKA, 1986
Lat. 59° 27'N Long. 151° 43'W

SEPTEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	15.8	15.3	13.6	10.8	7.4	4.1	1.9	1.3	2.4	4.8	8.2	11.7
M	14.5	15.9	15.7	14.0	11.2	8.2	6.0	5.3	6.2	8.4	11.5	14.5
2	16.6	17.3	16.2	13.6	9.8	5.6	2.0	.2	.5	2.6	6.1	10.3
Tu	14.1	16.6	17.3	16.0	13.2	9.5	6.0	4.0	4.0	5.9	9.1	12.9
3	16.3	18.3	18.4	16.3	12.6	7.9	3.3	.1	-.9	.6	3.9	8.4
W	13.0	16.7	18.4	17.9	15.4	11.5	7.1	3.6	2.3	3.3	6.3	10.5
4	14.8	18.1	19.6	18.7	15.6	10.9	5.7	1.2	-1.3	-1.0	1.8	6.3
Th	11.3	15.9	18.9	19.4	17.6	13.8	9.0	4.5	1.5	1.2	3.4	7.4
5	12.1	16.5	19.5	20.1	18.1	14.1	8.8	3.5	-.3	-1.5	.1	4.1
F	9.3	14.4	18.4	20.2	19.4	16.3	11.5	6.3	2.1	.1	.9	4.2
6	8.8	13.8	17.8	20.0	19.6	16.8	12.1	6.7	2.0	-.8	-.6	2.3
Sa	7.0	12.3	17.0	20.0	20.5	18.4	14.2	8.9	3.9	.4	-.5	1.4
7	5.3	10.2	14.9	18.3	19.6	18.4	15.0	10.2	5.3	1.4	-.1	1.3
Su	5.1	10.0	15.0	18.7	20.5	19.7	16.6	11.9	6.7	2.2	-.4	-.3
8	2.3	6.6	11.2	15.2	17.9	18.4	16.7	13.1	8.8	4.6	1.9	1.6
M	3.8	7.8	12.5	16.6	19.3	20.0	18.3	14.6	9.8	5.1	1.5	-.2
9	.6	3.4	7.4	11.4	14.7	16.6	16.7	14.9	11.7	8.1	5.0	3.3
Tu	3.7	6.2	10.0	13.9	17.1	18.9	18.7	16.6	12.9	8.6	4.6	1.7
10	.6	1.6	4.2	7.5	10.8	13.4	15.0	15.0	13.5	11.1	8.4	6.2
W	5.1	5.8	8.0	11.1	14.2	16.6	17.7	17.3	15.2	12.0	8.4	5.1
11	2.7	1.7	2.4	4.3	6.9	9.5	11.8	13.3	13.7	12.9	11.3	9.5
Th	7.8	6.8	7.2	8.8	11.1	13.5	15.4	16.4	16.1	14.6	12.1	9.2
12	6.3	3.9	2.6	2.6	3.7	5.6	7.8	10.2	12.1	13.2	13.2	12.4
F	10.9	9.3	8.0	7.6	8.4	10.0	12.0	13.9	15.3	15.7	14.9	13.0
13	10.5	7.7	4.9	2.8	2.0	2.5	4.0	6.4	9.2	11.9	13.7	14.4
Sa	13.9	12.4	10.2	8.1	7.0	7.1	8.3	10.4	12.8	14.9	16.0	15.9
14	14.5	12.0	8.7	5.2	2.3	.9	1.0	2.7	5.7	9.3	12.7	15.1
Su	16.0	15.4	13.3	10.2	7.3	5.4	5.2	6.5	9.1	12.3	15.2	17.1
15	17.4	16.0	13.1	9.0	4.6	1.2	-.5	-.1	2.2	6.0	10.4	14.4
M	17.0	17.7	16.4	13.3	9.2	5.5	3.3	3.2	5.1	8.6	12.7	16.3
16	18.5	18.8	17.0	13.3	8.3	3.3	-.3	-1.6	-.5	2.8	7.5	12.5
Tu	16.7	19.0	18.9	16.6	12.3	7.4	3.2	1.2	1.7	4.6	8.9	13.7
17	17.7	19.9	19.6	17.1	12.5	6.9	1.8	-1.4	-1.9	.2	4.5	9.9
W	15.1	18.9	20.4	19.2	15.6	10.4	5.0	1.0	-.3	1.2	5.0	10.1
18	15.2	19.1	20.7	19.6	16.2	10.9	5.1	.4	-1.9	-1.2	2.1	7.2
Th	12.8	17.7	20.6	20.8	18.3	13.7	7.9	2.6	-.7	-1.0	1.6	6.2
19	11.7	16.7	20.0	20.7	18.7	14.5	8.9	3.5	-.3	-1.3	.7	4.9
F	10.3	15.7	19.6	21.2	20.0	16.4	11.1	5.3	.7	-1.4	-.5	3.0
20	8.0	13.3	17.7	20.1	19.7	16.9	12.3	7.0	2.5	.0	.4	3.4
Sa	8.1	13.3	17.8	20.4	20.5	18.1	13.7	8.3	3.2	-.3	-1.1	.9
21	4.9	9.8	14.6	18.0	19.3	18.0	14.8	10.3	5.7	2.4	1.3	2.9
Su	6.5	11.1	15.5	18.8	20.0	18.8	15.6	11.0	6.1	1.9	-.2	.2
22	2.9	6.9	11.3	15.1	17.5	17.7	15.9	12.6	8.7	5.3	3.3	3.5
M	5.8	9.4	13.4	16.7	18.6	18.5	16.5	12.9	8.7	4.7	1.8	.9
23	2.1	4.9	8.5	12.1	14.8	16.2	15.8	13.8	11.0	8.0	5.7	4.9
Tu	5.9	8.4	11.6	14.6	16.7	17.4	16.5	14.0	10.7	7.2	4.3	2.6
24	2.5	4.0	6.5	9.3	11.9	13.8	14.5	13.9	12.2	10.1	8.2	6.9
W	6.8	8.1	10.3	12.7	14.6	15.8	15.7	14.4	12.1	9.4	6.8	4.9
25	3.9	4.1	5.4	7.3	9.3	11.1	12.4	12.9	12.5	11.4	10.1	9.0
Th	8.4	8.6	9.6	11.2	12.7	13.8	14.4	14.1	12.9	11.1	9.1	7.3
26	6.0	5.2	5.3	6.1	7.2	8.6	9.9	11.1	11.8	11.9	11.5	10.8
F	10.1	9.6	9.6	10.2	11.0	11.9	12.6	13.1	13.0	12.3	11.1	9.7
27	8.3	7.0	6.0	5.6	5.8	6.4	7.5	9.0	10.5	11.6	12.2	12.3
Sa	11.9	11.2	10.3	9.7	9.6	10.0	10.6	11.5	12.3	12.8	12.7	12.0
28	10.8	9.3	7.5	6.0	5.0	4.8	5.3	6.7	8.7	10.8	12.4	13.4
Su	13.5	12.9	11.5	10.0	8.7	8.3	8.5	9.5	10.9	12.5	13.6	13.8
29	13.2	11.8	9.7	7.2	5.0	3.7	3.5	4.5	6.6	9.4	12.1	14.1
M	15.0	14.7	13.2	11.0	8.6	6.9	6.4	7.2	8.9	11.2	13.5	15.0
30	15.4	14.4	12.3	9.2	5.9	3.3	2.1	2.6	4.5	7.6	11.1	14.2
Tu	16.1	16.5	15.2	12.6	9.3	6.4	4.7	4.7	6.3	9.0	12.3	15.2

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

SELDovia, ALASKA, 1986

57

Lat. 59° 27' N Long. 151° 43' W

OCTOBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	16.9	16.8	15.1	11.9	7.9	4.1	1.5	1.0	2.5	5.6	9.6	13.7
W	16.8	18.1	17.3	14.8	11.0	6.9	3.7	2.5	3.4	6.2	10.0	14.1
2	17.2	18.6	17.8	15.0	10.8	6.1	2.1	.1	.7	3.4	7.7	12.5
Th	16.7	19.1	19.3	17.2	13.3	8.4	3.9	1.0	.7	2.9	6.9	11.6
3	16.1	19.0	19.7	17.9	14.1	9.1	4.1	.5	-.4	1.4	5.5	10.6
F	15.6	19.3	20.8	19.5	16.0	10.9	5.4	1.0	-1.0	-.1	3.3	8.2
4	13.6	17.8	20.2	20.0	17.2	12.5	7.2	2.4	-.2	.1	3.3	8.2
Sa	13.7	18.4	21.2	21.3	18.6	13.9	8.0	2.5	-1.3	-2.2	.0	4.4
5	9.8	15.1	19.0	20.5	19.4	15.8	10.8	5.6	1.5	.1	1.7	5.8
Su	11.2	16.4	20.3	21.9	20.7	16.8	11.3	5.4	.3	-2.5	-2.3	.8
6	5.7	11.2	16.0	19.2	19.9	18.0	14.1	9.2	4.6	1.6	1.3	3.9
M	8.5	13.7	18.2	21.1	21.5	19.2	14.6	9.0	3.4	-.8	-2.6	-1.5
7	2.1	7.0	12.0	16.1	18.5	18.5	16.4	12.6	8.3	4.6	2.6	3.2
Tu	6.3	10.7	15.3	18.9	20.7	20.1	17.2	12.6	7.3	2.5	-.8	-1.7
8	-.1	3.4	7.8	12.0	15.3	17.0	16.8	14.8	11.6	8.1	5.3	4.2
W	5.2	8.2	12.0	15.7	18.3	19.3	18.3	15.4	11.2	6.7	2.8	.3
9	-.3	1.3	4.2	7.8	11.2	13.9	15.3	15.2	13.7	11.3	8.7	6.7
Th	5.9	6.9	9.2	12.2	14.9	16.9	17.5	16.6	14.2	10.8	7.2	4.0
10	1.8	1.2	2.2	4.4	7.0	9.8	12.3	13.9	14.3	13.5	11.9	9.9
F	8.1	7.2	7.6	9.2	11.2	13.3	15.0	15.8	15.4	13.8	11.3	8.5
11	5.6	3.4	2.3	2.5	3.8	5.9	8.5	11.1	13.1	14.2	14.1	13.0
Sa	11.3	9.3	7.8	7.4	8.0	9.5	11.4	13.3	14.7	15.0	14.3	12.5
12	10.0	7.1	4.4	2.7	2.2	2.9	4.8	7.6	10.7	13.4	15.0	15.4
Su	14.4	12.3	9.6	7.3	6.1	6.2	7.5	9.6	12.1	14.3	15.5	15.4
13	14.0	11.4	8.0	4.7	2.3	1.4	2.0	4.3	7.6	11.4	14.6	16.5
M	16.8	15.4	12.6	9.0	5.9	4.1	4.1	5.7	8.5	11.9	14.8	16.6
14	16.7	15.2	12.1	8.1	4.2	1.4	.6	1.7	4.6	8.7	13.0	16.5
Tu	18.2	18.0	15.7	11.9	7.4	3.8	1.9	2.3	4.6	8.3	12.5	16.0
15	17.9	17.8	15.7	12.0	7.3	3.1	.5	.3	2.3	6.1	10.8	15.4
W	18.5	19.6	18.4	15.0	10.1	5.1	1.4	.1	1.3	4.5	9.1	13.8
16	17.4	19.0	18.3	15.5	11.0	6.0	1.9	.1	.8	3.8	8.4	13.5
Th	17.8	20.2	20.2	17.7	13.2	7.6	2.5	-.6	-1.0	1.3	5.5	10.7
17	15.5	18.7	19.5	18.0	14.3	9.4	4.5	1.1	.4	2.3	6.2	11.3
F	16.2	19.7	20.9	19.6	15.9	10.6	4.8	.3	-1.4	-1.0	2.3	7.2
18	12.6	17.0	19.4	19.3	16.9	12.6	7.6	3.3	1.1	1.6	4.6	9.1
Sa	14.1	18.4	20.7	20.5	17.9	13.3	7.6	2.3	-1.2	-2.0	.1	4.2
19	9.4	14.4	18.0	19.4	18.3	15.1	10.7	6.1	2.8	1.9	3.7	7.4
Su	12.0	16.4	19.6	20.5	19.0	15.4	10.4	5.0	.6	-1.6	-1.0	1.9
20	6.4	11.3	15.6	18.2	18.5	16.7	13.2	9.0	5.3	3.2	3.6	6.1
M	10.1	14.3	17.8	19.6	19.2	16.7	12.6	7.7	3.2	.0	-.9	.7
21	4.2	8.5	12.7	16.0	17.5	17.0	14.7	11.4	7.9	5.2	4.4	5.6
Tu	8.6	12.3	15.7	18.0	18.6	17.2	14.1	10.1	5.8	2.3	.4	.7
22	2.8	6.2	9.9	13.3	15.5	16.2	15.2	13.0	10.1	7.5	5.9	6.0
W	7.8	10.6	13.6	16.0	17.3	16.9	15.0	11.9	8.3	4.9	2.5	1.6
23	2.5	4.7	7.6	10.5	13.0	14.5	14.7	13.6	11.7	9.6	7.9	7.1
Th	7.7	9.5	11.8	13.9	15.4	15.9	15.1	13.0	10.3	7.4	5.0	3.4
24	3.1	4.1	6.0	8.2	10.4	12.1	13.2	13.3	12.5	11.2	9.8	8.8
F	8.4	9.0	10.4	12.0	13.4	14.2	14.3	13.5	11.8	9.6	7.5	5.7
25	4.6	4.4	5.2	6.5	8.1	9.7	11.2	12.3	12.6	12.2	11.4	10.5
Sa	9.7	9.3	9.6	10.4	11.4	12.3	12.9	13.1	12.5	11.4	9.8	8.2
26	6.7	5.6	5.1	5.4	6.3	7.5	9.1	10.7	12.0	12.7	12.7	12.2
Su	11.3	10.3	9.5	9.2	9.5	10.1	11.0	11.9	12.5	12.5	11.8	10.6
27	9.1	7.4	5.9	5.0	4.9	5.6	7.0	8.9	11.0	12.7	13.7	13.8
M	13.1	11.7	10.1	8.6	7.9	7.9	8.7	10.0	11.5	12.7	13.3	12.9
28	11.7	9.8	7.6	5.5	4.3	4.1	5.1	7.0	9.5	12.2	14.2	15.2
Tu	14.9	13.6	11.4	8.9	6.8	5.9	6.1	7.5	9.6	11.9	13.8	14.6
29	14.2	12.6	10.0	7.1	4.5	3.2	3.4	5.0	7.8	11.1	14.2	16.3
W	16.8	15.7	13.3	10.0	6.7	4.3	3.6	4.5	6.8	9.9	13.1	15.4
30	16.3	15.4	13.0	9.6	6.0	3.2	2.2	3.1	5.8	9.5	13.5	16.7
Th	18.4	18.0	15.7	12.0	7.7	3.8	1.6	1.5	3.5	6.9	11.1	14.8
31	17.3	17.7	16.1	12.9	8.7	4.6	2.0	1.6	3.6	7.4	11.9	16.3
F	19.2	20.0	18.4	14.8	9.9	4.8	.8	-.9	.0	3.2	7.8	12.6

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

SELDovia, ALASKA, 1986

Lat. 59° 27'N Long. 151° 43'W

NOVEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	16.7	18.9	18.7	16.2	12.1	7.3	3.2	1.1	1.8	5.0	9.6	14.7
Sa	18.9	21.1	20.7	17.8	13.0	7.2	1.8	-1.8	-2.7	-5.5	3.8	9.1
2	14.3	18.2	19.9	18.9	15.6	10.9	6.0	2.2	1.0	2.8	6.9	12.1
Su	17.2	20.9	22.1	20.5	16.4	10.7	4.5	-7.7	-3.6	-3.4	-2.2	4.8
3	10.5	15.7	19.1	20.1	18.4	14.5	9.6	4.9	1.9	1.6	4.3	9.0
M	14.4	19.1	21.9	22.1	19.5	14.6	8.4	2.3	-2.4	-4.3	-3.1	.7
4	6.1	11.7	16.4	19.2	19.5	17.3	13.3	8.5	4.4	2.2	2.9	6.2
Tu	11.0	16.0	19.9	21.9	21.2	17.8	12.6	6.6	1.0	-2.9	-3.9	-2.1
5	2.0	7.2	12.3	16.4	18.5	18.3	16.0	12.2	8.0	4.6	3.2	4.4
W	7.8	12.3	16.6	19.7	20.9	19.6	16.1	11.0	5.6	.8	-2.3	-2.7
6	-6	3.2	7.8	12.2	15.6	17.3	17.0	14.8	11.5	8.0	5.9	4.4
Th	5.8	8.9	12.7	16.2	18.6	19.2	17.8	14.5	10.1	5.5	1.5	-9
7	-1.1	.8	4.0	7.8	11.6	14.5	16.1	15.9	14.2	11.5	8.6	6.4
F	5.6	6.7	9.1	12.1	14.8	16.8	17.3	16.2	13.6	10.0	6.2	2.9
8	.8	.5	1.8	4.3	7.5	10.7	13.5	15.1	15.3	14.1	12.0	9.5
Sa	7.4	6.4	6.9	8.5	10.7	13.0	14.8	15.6	15.1	13.3	10.6	7.4
9	4.5	2.4	1.7	2.4	4.3	7.0	10.0	12.9	14.8	15.4	14.7	12.9
Su	10.4	8.0	6.5	6.2	7.1	8.8	11.0	13.1	14.5	14.7	13.6	11.6
10	8.8	5.8	3.5	2.3	2.5	4.1	6.7	9.9	13.0	15.3	16.2	15.6
M	13.7	10.9	7.9	5.7	4.8	5.2	6.9	9.4	12.0	14.1	14.9	14.4
11	12.6	9.9	6.7	3.9	2.5	2.5	4.1	7.0	10.5	14.0	16.4	17.2
Tu	16.5	14.1	10.6	6.9	4.1	2.9	3.4	5.5	8.5	11.8	14.4	15.6
12	15.3	13.5	10.4	6.8	3.9	2.4	2.6	4.6	8.0	11.9	15.5	17.7
W	18.2	16.8	13.6	9.4	5.2	2.2	1.2	2.1	4.8	8.6	12.4	15.3
13	16.5	16.0	13.8	10.3	6.4	3.5	2.3	3.2	5.8	9.7	13.9	17.2
Th	19.0	18.7	16.3	12.3	7.4	3.0	.3	-1.1	1.6	5.2	9.5	13.6
14	16.4	17.4	16.3	13.5	9.5	5.6	3.0	2.6	4.3	7.6	11.9	16.0
F	18.8	19.6	18.3	14.9	10.1	5.0	.8	-1.1	-6	2.1	6.4	11.1
15	15.1	17.5	17.7	15.9	12.5	8.3	4.7	2.9	3.4	5.9	9.9	14.2
Sa	17.8	19.8	19.5	17.0	12.8	7.6	2.5	-9	-1.8	-2	3.5	8.2
16	12.9	16.5	18.1	17.5	15.0	11.2	7.1	4.1	3.2	4.7	8.0	12.2
Su	16.2	19.1	19.9	18.5	15.0	10.2	5.0	.6	-1.8	-1.5	1.2	5.4
17	10.2	14.6	17.4	18.1	16.7	13.6	9.6	6.0	3.9	4.1	6.5	10.2
M	14.2	17.7	19.5	19.2	16.7	12.6	7.7	2.8	-6	-1.7	-3	3.0
18	7.5	12.0	15.7	17.6	17.4	15.3	12.0	8.3	5.4	4.3	5.5	8.4
Tu	12.1	15.7	18.3	19.1	17.7	14.6	10.2	5.5	1.5	-9	-8	1.4
19	5.1	9.3	13.3	16.1	17.1	16.2	13.8	10.6	7.4	5.4	5.3	7.1
W	10.2	13.6	16.5	18.1	17.9	15.9	12.3	8.1	4.0	.9	-3	.6
20	3.3	6.8	10.6	13.8	15.8	16.1	14.8	12.4	9.5	7.1	6.0	6.5
Th	8.7	11.6	14.4	16.5	17.2	16.4	13.9	10.4	6.6	3.3	1.2	.8
21	2.3	4.9	8.1	11.3	13.7	15.1	14.9	13.5	11.4	9.1	7.4	6.8
F	7.8	9.9	12.3	14.5	15.8	15.9	14.7	12.2	9.0	5.9	3.3	2.0
22	2.1	3.7	6.2	8.9	11.4	13.4	14.3	14.0	12.7	10.9	9.1	7.9
Sa	7.7	8.7	10.5	12.3	13.8	14.7	14.5	13.2	11.0	8.3	5.8	3.8
23	2.9	3.3	4.8	7.0	9.2	11.4	13.0	13.8	13.5	12.4	10.9	9.4
Su	8.4	8.2	9.0	10.3	11.7	12.8	13.5	13.4	12.3	10.4	8.2	6.1
24	4.5	3.8	4.2	5.5	7.3	9.4	11.4	13.0	13.8	13.5	12.5	11.1
M	9.6	8.5	8.0	8.4	9.4	10.6	11.7	12.6	12.8	12.0	10.5	8.7
25	6.8	5.2	4.3	4.6	5.8	7.6	9.7	11.9	13.6	14.4	14.1	13.0
Tu	11.3	9.4	7.8	7.0	7.1	8.0	9.4	10.9	12.2	12.9	12.5	11.2
26	9.4	7.4	5.5	4.5	4.6	5.9	7.9	10.4	12.9	14.8	15.5	14.9
W	13.3	11.0	8.5	6.3	5.2	5.3	6.5	8.4	10.6	12.5	13.6	13.5
27	12.2	10.2	7.7	5.5	4.2	4.4	6.0	8.6	11.6	14.5	16.4	16.8
Th	15.6	13.3	10.1	6.8	4.1	2.9	3.3	5.1	7.8	10.9	13.5	14.9
28	14.8	13.2	10.7	7.7	5.0	3.7	4.3	6.5	9.7	13.3	16.4	18.1
F	18.0	16.0	12.7	8.6	4.5	1.5	.5	1.5	4.2	7.9	11.8	14.9
29	16.4	16.0	14.0	10.8	7.2	4.3	3.2	4.3	7.2	11.2	15.3	18.4
Sa	19.8	18.9	15.9	11.5	6.5	1.9	-1.1	-1.6	.3	4.0	8.6	13.1
30	16.4	17.8	17.0	14.3	10.5	6.4	3.5	2.8	4.7	8.4	13.0	17.3
Su	20.2	21.0	19.2	15.3	9.9	4.2	-6	-3.3	-3.1	-2	4.3	9.6

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

Lat. 59° 27'N Long. 151° 43'W

DECEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 M	14.5 19.0	17.8 21.5	18.8 21.5	17.4 18.9	14.1 14.1	9.7 8.1	5.5 2.1	2.8 -2.6	2.8 -4.7	5.3 -3.6	9.7 .0	14.6 5.2
2 Tu	10.8 16.0	15.6 20.1	18.7 22.1	19.2 21.4	17.3 18.0	13.5 12.7	8.8 6.4	4.7 .4	2.5 -3.8	3.1 -5.1	6.3 -3.4	11.0 .8
3 W	6.2 12.1	11.8 16.8	16.4 20.4	19.0 21.8	19.0 20.6	16.6 16.8	12.6 11.3	8.0 5.1	4.2 -5.5	2.5 -4.0	3.7 -4.7	7.3 -2.4
4 Th	1.9 8.1	7.3 12.6	12.5 16.9	16.7 20.0	18.7 20.9	18.4 19.3	15.8 15.4	11.8 10.1	7.4 4.4	4.0 -5.5	2.9 -3.4	4.5 -3.5
5 F	-1.1 5.2	3.1 8.5	8.1 12.5	12.9 16.3	16.5 18.8	18.1 19.4	17.5 17.7	14.9 14.1	11.2 9.3	7.2 4.3	4.3 .1	3.6 -2.1
6 Sa	-1.9 4.3	.4 5.6	4.3 8.4	8.7 11.8	12.9 14.9	16.0 17.1	17.4 17.6	16.7 16.1	14.4 13.1	10.9 9.0	7.4 4.8	4.9 1.3
7 Su	-5.5 5.5	-2.2 4.7	1.9 5.6	5.2 7.7	9.1 10.5	12.8 13.2	15.6 15.2	16.8 15.9	16.2 14.9	14.1 12.5	11.1 9.2	7.9 5.7
8 M	2.8 8.2	1.2 5.8	1.4 4.6	3.1 5.0	6.0 6.6	9.4 8.9	12.8 11.5	15.4 13.6	16.5 14.5	16.0 14.1	14.2 12.4	11.3 9.8
9 Tu	6.9 11.6	4.2 8.3	2.7 5.6	2.8 4.1	4.2 4.0	6.7 5.2	9.8 7.4	13.0 10.0	15.5 12.4	16.5 13.7	16.1 13.8	14.4 12.7
10 W	10.6 14.4	7.9 11.4	5.4 7.9	3.9 4.8	3.8 3.0	5.0 2.8	7.4 3.9	10.4 6.3	13.5 9.2	15.9 11.9	16.9 13.7	16.3 14.1
11 Th	13.3 16.4	11.3 14.2	8.7 10.7	6.2 6.8	4.6 3.6	4.5 1.7	5.7 1.6	8.2 3.1	11.3 5.9	14.4 9.2	16.5 12.2	17.3 14.2
12 F	14.7 17.6	13.9 16.2	11.8 13.4	9.0 9.5	6.4 5.3	4.9 2.0	5.0 .5	6.5 .8	9.3 2.9	12.5 6.2	15.5 9.9	17.3 13.1
13 Sa	15.1 17.9	15.4 17.6	14.3 15.6	11.8 12.1	8.8 7.7	6.2 3.5	5.0 .5	5.5 -5.5	7.5 .6	10.5 3.4	13.9 7.2	16.6 11.2
14 Su	14.4 17.6	16.0 18.3	15.9 17.2	14.2 14.4	11.3 10.3	8.1 5.7	5.7 1.6	5.0 -7.7	6.1 -8.8	8.6 1.1	12.0 4.6	15.3 8.8
15 M	12.8 16.6	15.6 18.4	16.7 18.3	15.9 16.3	13.6 12.8	10.3 8.3	7.1 3.6	5.2 -1.4	5.1 -1.4	6.9 -6.6	10.0 2.2	13.5 6.2
16 Tu	10.6 14.9	14.3 17.6	16.6 18.7	16.9 17.7	15.4 15.0	12.6 10.9	9.1 6.2	6.2 1.8	4.9 -9.9	5.6 -1.4	8.0 .3	11.4 3.7
17 W	8.0 12.9	12.3 16.1	15.5 18.2	17.0 18.4	16.6 16.7	14.5 13.3	11.3 8.8	7.9 4.3	5.4 .5	4.9 -1.3	6.4 -8.8	9.3 1.7
18 Th	5.5 10.7	9.8 14.1	13.6 16.8	16.2 18.1	16.9 17.6	15.8 15.2	13.2 11.4	9.9 6.9	6.8 2.8	5.1 -1.1	5.4 -1.0	7.5 .4
19 F	3.4 8.7	7.3 11.8	11.3 14.8	14.6 16.9	16.4 17.5	16.4 16.3	14.7 13.4	11.9 9.5	8.7 5.3	6.2 1.8	5.3 -2.2	6.2 -1.1
20 Sa	1.9 7.2	5.2 9.7	9.0 12.6	12.5 15.0	15.1 16.5	16.2 16.5	15.5 14.8	13.5 11.7	10.7 7.9	7.9 4.2	6.0 1.5	5.7 .4
21 Su	1.2 6.3	3.6 7.9	6.9 10.3	10.3 12.8	13.3 14.7	15.3 15.7	15.2 15.2	14.6 13.2	12.4 10.2	9.8 6.8	7.4 3.8	6.1 1.8
22 M	1.4 6.2	2.7 6.6	5.3 8.3	8.4 10.4	11.5 12.4	13.9 14.0	15.3 14.6	15.3 13.9	13.8 12.0	11.6 9.2	9.2 6.3	7.2 3.9
23 Tu	2.5 6.9	2.6 6.1	4.2 6.5	6.8 8.0	9.7 9.8	12.4 11.6	14.4 13.0	15.4 13.5	14.9 13.0	13.3 11.3	11.0 8.9	8.7 6.5
24 W	4.5 8.3	3.5 6.4	3.9 5.5	5.5 5.8	8.0 7.0	10.7 8.8	13.2 10.6	14.9 12.1	15.5 12.9	14.8 12.6	13.0 11.2	10.7 9.3
25 Th	7.2 10.4	5.4 7.7	4.5 5.5	4.9 4.3	6.5 4.4	8.9 5.6	11.5 7.5	13.9 9.6	15.5 11.5	16.0 12.8	15.0 12.9	13.0 11.9
26 F	10.2 13.1	8.1 10.1	6.3 6.9	5.2 4.2	5.4 2.6	7.0 2.6	9.5 3.9	12.2 6.2	14.7 8.9	16.4 11.5	16.7 13.2	15.5 13.8
27 Sa	13.0 16.1	11.3 13.3	9.0 9.6	6.8 5.7	5.4 2.4	5.5 .6	7.2 .6	9.9 2.3	12.9 5.2	15.7 8.6	17.5 11.9	17.6 14.3
28 Su	15.1 18.7	14.3 16.8	12.3 13.3	9.6 8.9	6.8 4.3	5.1 .5	5.2 -1.5	7.1 -1.2	10.2 1.0	13.7 4.7	16.8 9.0	18.7 12.9
29 M	15.6 20.0	16.5 19.7	15.5 17.3	13.0 13.1	9.6 7.9	6.3 2.6	4.4 -1.5	4.6 -3.4	6.9 -2.6	10.5 .3	14.6 4.8	18.0 9.8
30 Tu	14.2 19.2	17.0 21.1	17.7 20.5	16.3 17.5	13.2 12.6	9.1 6.7	5.4 1.0	3.5 -3.2	4.0 -4.7	6.8 -3.4	11.0 .4	15.5 5.5
31 W	10.9 16.4	15.5 20.1	18.3 21.7	18.6 20.6	16.6 17.2	12.8 11.7	8.2 5.4	4.4 -4.4	2.6 -4.4	3.6 -5.3	6.9 -3.3	11.6 1.1

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

VALDEZ, ALASKA, 1986

Lat. 61° 08'N Long. 146° 22'W

JANUARY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	2.0	4.6	7.2	9.2	10.3	10.5	9.8	8.4	6.6	4.9	3.9	4.1
W	5.5	7.4	9.3	10.6	11.0	10.5	9.2	7.1	4.7	2.3	.6	.2
2	1.3	3.4	5.9	8.2	9.8	10.6	10.6	9.7	8.1	6.2	4.5	3.6
Th	3.9	5.2	7.0	8.6	9.7	10.0	9.5	8.4	6.6	4.4	2.4	1.2
3	1.2	2.5	4.7	7.0	9.0	10.4	11.0	10.8	9.7	7.9	5.9	4.1
F	3.2	3.4	4.5	6.0	7.5	8.5	9.0	8.8	8.0	6.5	4.6	3.0
4	2.1	2.4	3.7	5.7	7.8	9.6	10.9	11.4	11.1	9.8	7.8	5.6
Sa	3.6	2.6	2.6	3.4	4.7	6.1	7.4	8.2	8.4	7.9	6.7	5.2
5	3.8	3.1	3.4	4.6	6.3	8.3	10.1	11.4	11.9	11.4	10.0	7.8
Su	5.3	3.1	1.8	1.4	2.0	3.3	4.9	6.5	7.8	8.4	8.2	7.3
6	6.0	4.7	4.0	4.1	5.0	6.6	8.6	10.5	11.9	12.4	11.9	10.2
M	7.8	5.0	2.5	.8	.1	.6	2.0	4.1	6.1	7.8	8.7	8.8
7	8.0	6.7	5.4	4.4	4.2	5.0	6.7	8.9	11.0	12.5	13.0	12.3
Tu	10.5	7.8	4.7	1.7	-4.2	-1.2	-6.7	1.2	3.7	6.1	8.1	9.3
8	9.4	8.7	7.3	5.7	4.4	4.0	4.8	6.7	9.2	11.5	13.0	13.5
W	12.7	10.6	7.6	4.1	.8	-1.5	-2.3	-1.3	.9	3.8	6.5	8.7
9	9.9	10.1	9.2	7.5	5.5	4.0	3.6	4.6	6.8	9.5	11.9	13.5
Th	13.8	12.9	10.6	7.2	3.4	-2.2	-2.4	-2.9	-1.5	1.1	4.3	7.2
10	9.4	10.6	10.6	9.3	7.2	5.0	3.4	3.2	4.5	7.0	9.8	12.3
F	13.8	14.0	12.8	10.2	6.5	2.5	-1.0	-3.0	-2.9	-1.1	1.9	5.2
11	8.1	10.2	11.1	10.8	9.1	6.7	4.3	2.8	2.9	4.6	7.3	10.1
Sa	12.5	13.8	13.8	12.3	9.4	5.6	1.6	-1.6	-3.0	-2.4	-2.2	3.0
12	6.3	9.1	10.9	11.4	10.6	8.6	6.0	3.7	2.5	3.0	4.9	7.6
Su	10.4	12.5	13.5	13.2	11.4	8.3	4.5	.9	-1.7	-2.5	-1.4	1.2
13	4.4	7.5	9.9	11.3	11.4	10.2	7.9	5.3	3.2	2.4	3.2	5.2
M	7.9	10.4	12.1	12.8	12.1	10.1	7.1	3.6	.5	-1.4	-1.5	.1
14	2.8	5.9	8.6	10.6	11.4	11.1	9.6	7.3	4.8	3.0	2.6	3.5
Tu	5.6	8.0	10.1	11.4	11.6	10.8	8.8	6.1	3.1	.6	-6	-1
15	1.8	4.5	7.2	9.5	10.9	11.3	10.6	8.9	6.7	4.5	3.0	2.8
W	3.9	5.8	7.8	9.4	10.3	10.4	9.4	7.7	5.3	2.9	1.2	.7
16	1.6	3.5	6.0	8.3	10.0	11.0	11.0	10.1	8.4	6.2	4.2	3.1
Th	3.1	4.1	5.7	7.3	8.5	9.2	9.1	8.3	6.9	5.0	3.2	2.1
17	2.1	3.3	5.1	7.2	9.0	10.3	10.8	10.7	9.6	7.9	5.8	4.1
F	3.2	3.3	4.1	5.3	6.6	7.5	8.1	8.2	7.6	6.5	5.1	3.8
18	3.3	3.6	4.7	6.3	7.9	9.3	10.3	10.7	10.4	9.2	7.5	5.6
Sa	4.1	3.2	3.2	3.8	4.7	5.7	6.7	7.4	7.6	7.3	6.5	5.5
19	4.7	4.4	4.8	5.7	7.0	8.3	9.5	10.4	10.6	10.2	8.9	7.2
Su	5.4	3.9	3.0	2.8	3.1	3.9	5.0	6.1	7.0	7.5	7.4	6.9
20	6.1	5.5	5.3	5.5	6.2	7.3	8.5	9.7	10.5	10.7	10.1	8.8
M	7.0	5.2	3.6	2.5	2.1	2.4	3.3	4.6	6.0	7.1	7.8	7.8
21	7.4	6.7	6.1	5.7	5.7	6.3	7.4	8.7	10.0	10.8	10.8	10.1
Tu	8.7	6.8	4.7	2.9	1.7	1.2	1.7	2.9	4.6	6.3	7.6	8.3
22	8.3	7.8	7.0	6.2	5.6	5.5	6.2	7.5	9.1	10.4	11.2	11.1
W	10.2	8.5	6.3	4.0	1.9	.6	.4	1.3	3.0	5.1	6.9	8.3
23	8.9	8.8	8.1	6.9	5.8	5.1	5.2	6.2	7.9	9.6	11.1	11.7
Th	11.4	10.2	8.2	5.5	2.8	.7	-4	-1	1.4	3.6	5.9	7.8
24	9.1	9.5	9.1	7.9	6.4	5.0	4.5	5.0	6.4	8.5	10.4	11.8
F	12.2	11.6	10.0	7.4	4.3	1.5	-5	-1.1	-1	1.9	4.5	6.9
25	8.8	9.9	9.9	9.0	7.3	5.5	4.2	4.0	5.0	7.0	9.3	11.3
Sa	12.5	12.6	11.5	9.3	6.2	2.9	.1	-1.4	-1.3	.4	3.0	5.8
26	8.2	9.9	10.5	10.0	8.5	6.4	4.5	3.4	3.7	5.3	7.7	10.1
Su	12.0	12.9	12.6	10.9	8.1	4.7	1.4	-1.0	-1.8	-9	1.4	4.4
27	7.3	9.5	10.7	10.8	9.6	7.6	5.3	3.5	2.9	3.7	5.8	8.5
M	10.9	12.5	13.0	12.1	9.9	6.7	3.2	.2	-1.6	-1.6	.1	2.9
28	6.1	8.8	10.6	11.3	10.7	9.0	6.6	4.2	2.7	2.6	4.0	6.4
Tu	9.1	11.4	12.6	12.5	11.1	8.6	5.3	2.0	-5	-1.5	-7	1.6
29	4.7	7.8	10.2	11.4	11.4	10.2	8.1	5.6	3.3	2.1	2.5	4.2
W	6.8	9.4	11.3	12.1	11.6	9.9	7.3	4.2	1.4	-5	-7	.7
30	3.4	6.6	9.4	11.2	11.8	11.2	9.6	7.2	4.7	2.6	1.8	2.5
Th	4.4	7.0	9.3	10.8	11.1	10.4	8.7	6.3	3.6	1.3	.2	.6
31	2.5	5.3	8.2	10.5	11.7	11.8	10.9	9.0	6.6	4.0	2.2	1.6
F	2.5	4.4	6.7	8.6	9.7	9.9	9.2	7.8	5.7	3.6	1.9	1.3

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (M.O.S. chart datum).

BEST COPY AVAILABLE

FEBRUARY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	2.2	4.2	6.9	9.3	11.0	11.8	11.6	10.5	8.6	6.1	3.7	2.0
Sa	1.6	2.4	4.0	5.9	7.5	8.4	8.7	8.3	7.3	5.7	4.0	2.9
2	2.7	3.7	5.6	7.8	9.8	11.1	11.7	11.5	10.3	8.4	6.0	3.7
Su	2.0	1.5	2.0	3.3	4.8	6.1	7.2	7.8	7.8	7.2	6.1	4.9
3	4.0	4.0	4.8	6.4	8.1	9.8	11.0	11.6	11.4	10.4	8.5	6.2
M	3.8	2.1	1.2	1.3	2.1	3.4	4.9	6.3	7.3	7.8	7.6	6.8
4	5.8	5.1	4.8	5.3	6.4	7.9	9.4	10.8	11.6	11.6	10.7	8.9
Tu	6.5	4.1	2.0	.7	.3	.9	2.3	4.0	5.9	7.3	8.2	8.3
5	7.7	6.7	5.7	5.1	5.1	5.9	7.3	9.1	10.7	11.8	12.0	11.2
W	9.4	6.9	4.1	1.6	-2	-8	-1	1.5	3.7	6.0	7.8	8.9
6	9.1	8.5	7.2	5.7	4.6	4.3	5.1	6.8	8.9	10.8	12.2	12.5
Th	11.7	9.8	7.0	3.8	.8	-1.2	-1.7	-7	1.4	4.1	6.7	8.7
7	9.8	9.9	9.0	7.2	5.2	3.8	3.4	4.4	6.5	8.9	11.2	12.6
F	13.0	12.1	9.9	6.7	3.0	-2	-2.1	-2.3	-7	1.9	4.9	7.7
8	9.8	10.7	10.5	9.0	6.6	4.3	2.7	2.6	4.0	6.5	9.2	11.6
Sa	13.1	13.3	12.1	9.5	5.8	2.0	-1.1	-2.6	-2.1	.0	3.0	6.3
9	9.0	10.8	11.4	10.5	8.4	5.7	3.2	1.8	2.2	4.0	6.8	9.7
Su	12.0	13.3	13.1	11.5	8.5	4.6	.9	-1.8	-2.5	-1.3	1.3	4.6
10	7.9	10.3	11.7	11.6	10.1	7.5	4.5	2.2	1.3	2.2	4.4	7.4
M	10.2	12.2	13.1	12.5	10.4	7.1	3.4	.1	-1.8	-1.8	.1	3.1
11	6.5	9.4	11.4	12.1	11.3	9.2	6.3	3.5	1.5	1.2	2.5	5.0
Tu	7.9	10.5	12.1	12.4	11.3	9.0	5.8	2.4	-2	-1.2	-3	2.0
12	5.2	8.3	10.7	11.9	11.9	10.5	8.1	5.2	2.7	1.3	1.5	3.2
W	5.7	8.4	10.4	11.5	11.3	9.9	7.5	4.6	1.9	.2	.1	1.5
13	4.1	7.1	9.7	11.4	11.9	11.3	9.5	7.0	4.3	2.3	1.4	2.0
Th	3.9	6.3	8.5	10.0	10.5	10.0	8.5	6.4	4.0	2.1	1.2	1.7
14	3.6	6.1	8.6	10.5	11.5	11.4	10.4	8.5	6.1	3.8	2.2	1.8
F	2.7	4.5	6.5	8.2	9.1	9.3	8.7	7.4	5.7	4.0	2.7	2.6
15	3.6	5.5	7.6	9.5	10.7	11.1	10.7	9.5	7.6	5.5	3.5	2.4
Sa	2.4	3.3	4.8	6.3	7.5	8.1	8.2	7.7	6.8	5.5	4.4	3.8
16	4.0	5.2	6.8	8.5	9.8	10.5	10.6	10.0	8.8	7.1	5.2	3.6
Su	2.8	2.9	3.6	4.7	5.7	6.6	7.2	7.4	7.2	6.6	5.8	5.1
17	4.9	5.3	6.3	7.6	8.7	9.6	10.1	10.1	9.5	8.4	6.9	5.2
M	3.9	3.1	3.0	3.4	4.1	4.9	5.8	6.5	7.0	7.1	6.9	6.3
18	5.9	5.8	6.1	6.8	7.6	8.5	9.2	9.7	9.9	9.4	8.4	7.0
Tu	5.4	4.1	3.2	2.7	2.8	3.3	4.2	5.3	6.3	7.1	7.5	7.4
19	7.0	6.6	6.3	6.3	6.6	7.2	8.1	9.0	9.7	10.0	9.7	8.7
W	7.2	5.5	3.9	2.7	1.9	1.9	2.6	3.8	5.3	6.7	7.7	8.1
20	8.0	7.5	6.8	6.2	5.8	6.0	6.7	7.9	9.1	10.1	10.5	10.2
Th	9.0	7.3	5.3	3.3	1.7	.9	1.0	2.2	3.9	5.8	7.4	8.5
21	8.8	8.5	7.6	6.5	5.5	5.0	5.3	6.4	8.0	9.7	10.8	11.2
F	10.7	9.2	7.0	4.5	2.1	.4	-2	.6	2.3	4.6	6.8	8.5
22	9.5	9.5	8.7	7.2	5.6	4.3	4.0	4.8	6.5	8.6	10.5	11.7
Sa	11.9	11.0	9.0	6.2	3.2	.6	-8	-8	.7	3.1	5.8	8.2
23	9.8	10.4	9.9	8.3	6.3	4.3	3.1	3.2	4.7	6.9	9.4	11.4
Su	12.4	12.3	10.8	8.3	5.0	1.7	-7	-1.6	-7	1.6	4.6	7.5
24	9.8	11.0	11.0	9.7	7.5	4.9	2.8	2.0	2.8	4.9	7.7	10.3
M	12.2	12.9	12.3	10.2	7.1	3.5	.3	-1.6	-1.6	.2	3.2	6.5
25	9.3	11.2	11.8	11.0	9.0	6.1	3.4	1.5	1.3	2.7	5.4	8.5
Tu	11.1	12.7	12.9	11.7	9.1	5.7	2.1	-6	-1.7	-8	1.8	5.2
26	8.5	11.1	12.3	12.2	10.6	7.8	4.7	1.9	.5	.9	2.9	6.0
W	9.1	11.5	12.7	12.4	10.7	7.8	4.4	1.2	-8	-1.0	.7	3.8
27	7.3	10.4	12.3	12.8	11.9	9.6	6.5	3.3	.9	.0	.9	3.4
Th	6.5	9.4	11.4	12.1	11.4	9.5	6.6	3.5	1.0	-2	.4	2.7
28	5.9	9.2	11.7	13.0	12.7	11.2	8.6	5.4	2.3	.3	-1	1.2
F	3.8	6.7	9.3	10.8	11.0	10.2	8.3	5.8	3.3	1.4	.9	2.1

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

VILDEZ, ALASKA, 1986
Lat. 61° 08'N Long. 146° 22'W

MARCH

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	4.7	7.8	10.6	12.4	12.9	12.2	10.3	7.7	4.6	1.9	.2	.1
Sa	1.6	4.0	6.6	8.6	9.6	9.7	9.0	7.5	5.5	3.6	2.4	2.4
2	3.9	6.3	9.0	11.1	12.3	12.4	11.5	9.6	7.1	4.4	1.9	.6
Su	.6	1.9	3.9	5.9	7.4	8.3	8.5	8.1	7.1	5.7	4.3	3.6
3	3.9	5.3	7.3	9.4	10.9	11.7	11.7	10.9	9.3	7.1	4.6	2.4
M	1.1	1.0	1.9	3.3	4.8	6.1	7.1	7.7	7.7	7.2	6.3	5.3
4	4.7	5.0	6.0	7.5	8.9	10.1	10.9	11.1	10.6	9.4	7.5	5.2
Tu	3.1	1.7	1.2	1.5	2.4	3.7	5.0	6.3	7.4	7.9	7.7	7.1
5	6.2	5.6	5.5	5.9	6.9	8.0	9.2	10.3	10.8	10.7	9.8	8.1
W	5.9	3.7	1.9	.9	.7	1.4	2.7	4.4	6.2	7.6	8.5	8.5
6	7.9	6.9	5.9	5.2	5.2	5.8	7.0	8.5	10.0	11.0	11.2	10.4
Th	8.7	6.4	3.9	1.6	.2	-.2	.6	2.3	4.5	6.7	8.4	9.4
7	9.4	8.5	7.1	5.5	4.3	4.0	4.7	6.2	8.2	10.1	11.4	11.7
F	11.0	9.2	6.5	3.5	.9	-.7	-.9	.3	2.6	5.2	7.7	9.5
8	10.4	10.1	8.7	6.6	4.5	3.0	2.7	3.8	5.8	8.3	10.5	11.9
Sa	12.2	11.3	9.1	6.0	2.6	-.1	-1.4	-1.1	.8	3.6	6.6	9.1
9	10.8	11.2	10.3	8.3	5.6	3.1	1.7	1.9	3.5	6.0	8.8	11.0
Su	12.4	12.4	11.1	8.4	5.0	1.5	-.9	-1.6	-.5	2.0	5.2	8.3
10	10.6	11.8	11.6	10.0	7.3	4.2	1.8	.7	1.5	3.7	6.6	9.4
M	11.6	12.6	12.2	10.3	7.3	3.7	.5	-1.2	-1.1	.8	3.9	7.2
11	10.0	11.8	12.3	11.3	9.0	5.8	2.7	.7	.3	1.7	4.3	7.4
Tu	10.1	11.9	12.4	11.5	9.1	5.9	2.6	.1	-.8	.2	2.7	6.0
12	9.1	11.4	12.5	12.2	10.4	7.6	4.3	1.5	.1	.4	2.4	5.3
W	8.2	10.6	11.8	11.7	10.3	7.7	4.7	1.9	.2	.3	2.0	4.9
13	8.1	10.7	12.3	12.5	11.4	9.1	6.0	2.9	.7	.1	1.1	3.4
Th	6.3	8.9	10.7	11.3	10.7	8.9	6.5	3.8	1.8	1.1	1.9	4.1
14	7.0	9.8	11.7	12.4	11.9	10.2	7.6	4.7	2.1	.6	.6	2.0
F	4.4	7.0	9.1	10.3	10.3	9.4	7.7	5.6	3.6	2.4	2.4	3.8
15	6.2	8.7	10.8	11.9	11.9	10.8	8.8	6.3	3.7	1.7	.9	1.4
Sa	3.1	5.3	7.4	8.9	9.5	9.2	8.3	6.8	5.2	3.8	3.3	4.0
16	5.6	7.8	9.8	11.1	11.5	10.9	9.6	7.7	5.5	3.4	1.9	1.6
Su	2.3	3.9	5.7	7.2	8.2	8.5	8.2	7.4	6.4	5.2	4.5	4.5
17	5.4	7.0	8.7	10.0	10.7	10.7	10.0	8.7	7.0	5.1	3.5	2.4
M	2.3	3.1	4.3	5.6	6.6	7.3	7.5	7.5	7.1	6.4	5.7	5.3
18	5.6	6.5	7.7	8.9	9.7	10.0	9.9	9.3	8.3	6.8	5.2	3.8
Tu	3.0	2.9	3.4	4.2	5.0	5.8	6.5	7.0	7.2	7.1	6.7	6.3
19	6.1	6.3	6.9	7.7	8.5	9.0	9.3	9.4	9.1	8.3	7.0	5.6
W	4.2	3.3	2.9	3.1	3.5	4.2	5.1	6.1	7.0	7.5	7.6	7.3
20	6.8	6.5	6.5	6.7	7.1	7.7	8.4	9.0	9.4	9.3	8.7	7.4
Th	5.9	4.4	3.2	2.4	2.3	2.7	3.6	4.9	6.3	7.5	8.2	8.3
21	7.8	7.1	6.4	5.9	5.8	6.2	7.0	8.1	9.2	9.9	9.9	9.2
F	7.8	6.0	4.1	2.5	1.5	1.3	2.0	3.5	5.4	7.2	8.5	9.1
22	8.9	8.1	6.9	5.7	4.8	4.7	5.3	6.6	8.2	9.7	10.6	10.6
Sa	9.7	7.9	5.6	3.2	1.3	.4	.6	2.0	4.1	6.5	8.5	9.7
23	10.0	9.4	7.9	6.0	4.3	3.3	3.5	4.7	6.7	8.8	10.6	11.4
Su	11.2	9.9	7.6	4.8	2.0	.1	-.4	.5	2.7	5.5	8.1	10.1
24	11.0	10.7	9.3	7.1	4.6	2.6	1.8	2.5	4.5	7.1	9.6	11.5
M	12.2	11.6	9.7	6.8	3.6	.8	-.8	-.6	1.2	4.1	7.3	10.0
25	11.6	12.0	10.9	8.7	5.7	2.8	.9	.6	2.0	4.7	7.8	10.5
Tu	12.2	12.6	11.5	9.1	5.8	2.4	-.1	-1.0	.1	2.7	6.1	9.4
26	11.8	12.9	12.4	10.5	7.4	3.9	1.0	-.6	-.2	2.0	5.2	8.5
W	11.2	12.6	12.5	10.9	8.1	4.7	1.5	-.4	-.4	1.4	4.6	8.2
27	11.3	13.2	13.5	12.2	9.5	5.9	2.3	-.5	-1.4	-.4	2.3	5.8
Th	9.1	11.5	12.5	12.0	10.0	7.1	3.8	1.2	.0	.8	3.3	6.7
28	10.2	12.7	13.9	13.4	11.5	8.3	4.5	1.0	-1.3	-1.7	-.1	2.9
F	6.3	9.3	11.3	11.8	11.0	9.0	6.2	3.4	1.4	1.0	2.4	5.2
29	8.6	11.6	13.4	13.9	12.8	10.4	7.1	3.4	.3	-1.5	-1.4	.5
Sa	3.4	6.6	9.1	10.6	10.8	9.9	8.1	5.7	3.5	2.2	2.3	4.1
30	6.8	9.8	12.2	13.4	13.2	11.8	9.4	6.2	2.9	.3	-1.1	-.7
Su	1.1	3.8	6.4	8.4	9.5	9.6	8.9	7.5	5.7	4.1	3.3	3.7
31	5.4	7.9	10.2	11.9	12.6	12.2	10.9	8.7	5.9	3.1	.8	-.3
M	.1	1.7	3.8	5.8	7.4	8.3	8.7	8.3	7.4	6.1	4.9	4.3

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

VALDEZ, ALASKA, 1986
Lat. 61° 08'N Long. 146° 22'W

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APRIL

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	4.8	6.3	8.1	9.9	11.0	11.5	11.2	10.2	8.5	6.2	3.7	1.7
Tu	.7	.8	1.9	3.4	5.0	6.3	7.4	8.1	8.2	7.7	6.7	5.7
2	5.2	5.4	6.4	7.6	8.9	9.8	10.4	10.5	10.0	8.7	6.7	4.5
W	2.6	1.4	1.1	1.6	2.7	4.1	5.6	7.0	8.1	8.6	8.3	7.5
3	6.4	5.6	5.4	5.7	6.5	7.6	8.7	9.6	10.2	10.1	9.1	7.4
Th	5.2	3.2	1.7	1.0	1.1	2.1	3.6	5.5	7.3	8.7	9.3	9.1
4	8.1	6.7	5.5	4.7	4.6	5.2	6.4	7.9	9.3	10.3	10.5	9.7
F	7.9	5.6	3.3	1.5	.5	.6	1.8	3.7	6.0	8.2	9.7	10.2
5	9.7	8.3	6.4	4.7	3.5	3.2	4.0	5.6	7.6	9.5	10.7	10.9
Sa	10.0	8.1	5.6	3.0	.9	.0	.4	2.1	4.6	7.2	9.4	10.7
6	10.9	9.9	8.0	5.6	3.3	2.0	2.0	3.3	5.4	7.8	9.9	11.1
Su	11.2	10.1	7.9	5.0	2.2	.3	-.2	.9	3.2	6.1	8.8	10.8
7	11.7	11.3	9.6	7.0	4.2	1.8	.7	1.3	3.2	5.8	8.4	10.5
M	11.5	11.2	9.7	7.1	4.1	1.4	.0	.2	2.0	4.9	7.9	10.4
8	11.9	12.2	11.1	8.7	5.6	2.5	.4	.0	1.2	3.7	6.6	9.2
Tu	11.0	11.6	10.9	9.0	6.1	3.1	.9	.3	1.3	3.8	6.8	9.7
9	11.8	12.6	12.1	10.2	7.2	3.8	1.0	-.5	-.2	1.7	4.6	7.5
W	9.9	11.3	11.4	10.2	7.9	5.0	2.4	1.0	1.2	3.0	5.8	8.8
10	11.2	12.6	12.7	11.3	8.8	5.5	2.2	-.1	-.8	.3	2.7	5.7
Th	8.5	10.4	11.2	10.8	9.2	6.8	4.2	2.2	1.6	2.6	4.9	7.8
11	10.4	12.2	12.8	12.0	10.0	7.1	3.8	1.0	-.5	-.4	1.3	3.9
F	6.8	9.1	10.5	10.7	9.9	8.1	5.8	3.8	2.6	2.7	4.3	6.8
12	9.4	11.5	12.5	12.3	10.9	8.5	5.5	2.6	.5	-.3	.4	2.5
Sa	5.1	7.6	9.4	10.1	9.9	8.8	7.1	5.3	3.8	3.3	4.1	6.0
13	8.3	10.5	11.9	12.1	11.3	9.5	7.1	4.4	2.0	.5	.4	1.5
Su	3.6	6.0	7.9	9.1	9.4	9.0	7.9	6.5	5.1	4.3	4.4	5.5
14	7.4	9.4	10.9	11.6	11.3	10.1	8.3	6.1	3.8	1.9	1.0	1.2
M	2.6	4.5	6.3	7.7	8.5	8.6	8.1	7.3	6.3	5.3	4.9	5.4
15	6.6	8.3	9.8	10.7	10.9	10.3	9.1	7.5	5.5	3.6	2.2	1.6
Tu	2.1	3.3	4.8	6.2	7.2	7.7	7.9	7.7	7.1	6.4	5.8	5.6
16	6.2	7.3	8.5	9.5	10.0	10.0	9.5	8.5	7.1	5.5	3.8	2.6
W	2.2	2.6	3.5	4.7	5.7	6.6	7.2	7.6	7.7	7.3	6.7	6.2
17	6.1	6.5	7.3	8.2	8.9	9.2	9.3	9.0	8.3	7.2	5.6	4.1
Th	3.0	2.5	2.6	3.3	4.2	5.2	6.3	7.2	7.9	8.1	7.7	7.1
18	6.5	6.2	6.3	6.7	7.3	8.0	8.6	9.0	9.1	8.6	7.5	5.9
F	4.3	3.0	2.3	2.3	2.8	3.8	5.1	6.5	7.8	8.6	8.7	8.2
19	7.3	6.3	5.6	5.4	5.6	6.3	7.3	8.3	9.2	9.5	9.0	7.8
Sa	6.1	4.3	2.7	1.8	1.7	2.3	3.7	5.6	7.4	8.9	9.6	9.5
20	8.5	7.1	5.6	4.5	4.0	4.3	5.3	6.9	8.5	9.7	10.1	9.6
Su	8.1	6.1	3.9	2.1	1.1	1.1	2.3	4.3	6.7	8.9	10.3	10.7
21	10.0	8.5	6.4	4.3	2.8	2.3	3.0	4.7	6.9	9.0	10.4	10.8
M	10.0	8.3	5.9	3.4	1.4	.5	1.1	2.9	5.6	8.4	10.6	11.7
22	11.6	10.2	7.9	5.1	2.5	.9	.7	2.1	4.5	7.3	9.6	11.1
Tu	11.3	10.3	8.1	5.4	2.6	.8	.3	1.6	4.2	7.3	10.2	12.2
23	12.8	12.0	9.9	6.8	3.4	.5	-.9	-.5	1.6	4.7	7.8	10.3
W	11.7	11.6	10.2	7.8	4.7	2.0	.5	.7	2.7	5.9	9.2	12.0
24	13.5	13.5	11.9	9.0	5.3	1.5	-.1	-.2	1.1	1.6	5.1	8.4
Th	10.8	11.9	11.6	9.9	7.2	4.1	1.7	.7	1.7	4.2	7.7	11.0
25	13.3	14.3	13.6	11.3	7.8	3.8	.0	-.2	-.7	1.4	2.0	5.6
F	8.8	11.0	11.8	11.2	9.3	6.5	3.7	1.8	1.4	2.9	5.8	9.2
26	12.2	14.1	14.4	13.1	10.4	6.6	2.5	-.9	-.2	-.7	-.6	2.6
Sa	6.1	9.0	10.8	11.3	10.5	8.6	6.0	3.6	2.2	2.4	4.3	7.2
27	10.4	12.8	14.1	13.9	12.2	9.3	5.6	1.8	1.2	2.6	2.1	.1
Su	3.2	6.3	8.8	10.2	10.5	9.7	8.0	5.8	3.9	3.0	3.5	5.4
28	8.1	10.8	12.7	13.5	12.9	11.2	8.5	5.1	1.7	-.8	-.1	-.2
M	.9	3.6	6.2	8.3	9.4	9.7	9.1	7.7	6.0	4.4	3.8	4.4
29	6.2	8.4	10.6	11.9	12.4	11.8	10.3	8.0	5.1	2.1	.0	-.9
Tu	-.2	1.5	3.7	5.9	7.6	8.7	9.1	8.8	7.8	6.4	5.1	4.5
30	5.0	6.4	8.1	9.7	10.7	11.1	10.8	9.7	7.8	5.4	2.8	.9
W	.1	.5	1.9	3.6	5.4	7.0	8.3	9.0	9.0	8.2	6.9	5.6

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

VALDEZ, ALASKA, 1986

Lat. 61° 08'N Long. 146° 22'W

MAY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	4.9	5.1	6.0	7.2	8.4	9.4	10.0	10.1	9.4	8.0	5.8	3.6
Th	1.8	.9	1.0	1.9	3.4	5.1	6.8	8.3	9.3	9.4	8.7	7.3
2	5.9	5.0	4.7	5.1	5.9	7.0	8.2	9.2	9.7	9.4	8.2	6.3
F	4.1	2.3	1.3	1.2	1.9	3.3	5.2	7.2	8.9	10.0	10.0	9.1
3	7.5	5.8	4.4	3.8	3.8	4.6	5.9	7.5	8.9	9.7	9.6	8.4
SSa	6.6	4.5	2.6	1.4	1.2	2.0	3.7	5.9	8.1	9.9	10.7	10.5
J												
4	9.2	7.3	5.2	3.4	2.5	2.5	3.6	5.3	7.3	8.9	9.8	9.7
Su	8.6	6.7	4.5	2.5	1.3	1.3	2.5	4.6	7.1	9.4	10.9	11.4
5	10.7	9.0	6.5	4.0	2.1	1.2	1.6	3.1	5.3	7.5	9.3	10.1
M	9.8	8.5	6.5	4.2	2.2	1.3	1.8	3.5	6.0	8.6	10.7	11.8
6	11.7	10.5	8.2	5.3	2.6	.7	.2	1.2	3.2	5.8	8.1	9.7
Tu	10.3	9.8	8.2	6.0	3.7	2.0	1.6	2.7	4.9	7.6	10.1	11.8
7	12.3	11.6	9.7	6.9	3.7	1.0	-.4	-.3	1.4	3.9	6.6	8.8
W	10.1	10.4	9.5	7.7	5.3	3.2	2.0	2.3	4.0	6.6	9.3	11.4
8	12.5	12.3	10.9	8.4	5.2	2.1	-.2	-1.0	-.1	2.1	4.9	7.5
Th	9.5	10.4	10.2	9.0	6.9	4.7	3.0	2.5	3.4	5.6	8.3	10.7
9	12.2	12.7	11.8	9.8	6.9	3.6	.7	-1.0	-.9	.6	3.2	6.0
F	8.4	9.9	10.4	9.8	8.2	6.2	4.2	3.1	3.3	4.8	7.2	9.7
10	11.6	12.6	12.3	10.9	8.4	5.3	2.2	-.2	-1.1	-.3	1.7	4.4
Sa	7.0	9.0	10.0	10.0	9.1	7.4	5.6	4.1	3.5	4.3	6.2	8.6
11	10.7	12.1	12.4	11.5	9.6	6.9	3.9	1.2	-.4	-.6	.6	2.9
Su	5.4	7.7	9.2	9.8	9.4	8.3	6.8	5.2	4.2	4.3	5.4	7.4
12	9.6	11.3	12.0	11.8	10.4	8.3	5.7	3.0	.8	-.2	.1	1.7
M	3.9	6.2	8.0	9.0	9.2	8.7	7.7	6.3	5.1	4.6	5.1	6.5
13	8.4	10.2	11.3	11.5	10.8	9.3	7.2	4.8	2.5	.8	.2	.9
Tu	2.6	4.7	6.6	7.9	8.6	8.7	8.2	7.3	6.2	5.3	5.1	5.8
14	7.2	8.9	10.2	10.9	10.8	9.9	8.4	6.4	4.3	2.3	1.0	.8
W	1.7	3.3	5.1	6.6	7.7	8.3	8.3	7.9	7.1	6.2	5.5	5.5
15	6.3	7.5	8.9	9.9	10.2	9.9	9.1	7.8	6.0	4.0	2.3	1.3
Th	1.3	2.2	3.7	5.3	6.6	7.6	8.2	8.4	8.0	7.2	6.3	5.7
16	5.6	6.3	7.3	8.4	9.1	9.4	9.3	8.6	7.5	5.9	4.0	2.4
F	1.6	1.7	2.5	3.9	5.3	6.7	7.8	8.5	8.8	8.3	7.4	6.3
17	5.5	5.4	5.8	6.6	7.5	8.3	8.8	8.9	8.5	7.5	5.9	4.1
Sa	2.6	1.8	1.8	2.7	4.0	5.5	7.1	8.4	9.3	9.4	8.7	7.5
18	6.0	5.0	4.5	4.7	5.4	6.4	7.5	8.5	8.9	8.7	7.7	6.1
Su	4.2	2.7	1.8	1.9	2.7	4.3	6.1	8.0	9.5	10.3	10.1	9.0
19	7.2	5.4	3.9	3.1	3.2	4.1	5.5	7.1	8.5	9.2	9.1	8.1
M	6.3	4.4	2.7	1.8	1.9	2.9	4.9	7.2	9.3	10.9	11.4	10.7
20	9.0	6.7	4.3	2.4	1.4	1.6	2.8	4.8	7.0	8.8	9.7	9.6
Tu	8.4	6.6	4.5	2.7	1.7	2.0	3.5	5.9	8.6	10.9	12.2	12.2
21	11.0	8.7	5.8	2.8	.6	-.4	.1	1.9	4.6	7.2	9.2	10.2
W	10.0	8.8	6.7	4.4	2.5	1.7	2.3	4.3	7.2	10.1	12.3	13.3
22	12.8	11.0	8.1	4.6	1.2	-1.2	-2.0	-.9	1.6	4.7	7.6	9.7
Th	10.7	10.4	8.9	6.7	4.2	2.3	1.8	2.9	5.4	8.5	11.5	13.4
23	14.0	13.0	10.7	7.2	3.3	-.3	-2.6	-2.9	-1.4	1.6	5.0	8.0
F	10.1	11.0	10.5	8.9	6.4	4.0	2.3	2.1	3.7	6.5	9.8	12.5
24	14.1	14.3	12.9	10.1	6.2	2.0	-1.5	-3.4	-3.3	-1.2	2.0	5.4
Sa	8.4	10.3	11.0	10.4	8.6	6.1	3.8	2.4	2.7	4.6	7.5	10.6
25	13.1	14.3	14.1	12.4	9.3	5.3	1.2	-2.0	-3.6	-3.0	-.7	2.5
Su	5.9	8.6	10.3	10.8	10.0	8.2	5.8	3.7	2.7	3.3	5.3	8.2
26	11.1	13.1	14.0	13.5	11.6	8.4	4.6	.8	-2.1	-3.2	-2.3	.0
M	3.1	6.2	8.6	10.1	10.4	9.6	7.9	5.7	3.9	3.2	3.9	5.9
27	8.5	11.0	12.7	13.2	12.6	10.7	7.7	4.2	.8	-1.6	-2.4	-1.4
Tu	.8	3.7	6.4	8.5	9.8	10.0	9.3	7.7	5.8	4.2	3.6	4.3
28	6.1	8.3	10.4	11.7	12.1	11.5	9.8	7.2	4.1	1.1	-.9	-1.4
W	-.4	1.6	4.1	6.5	8.3	9.5	9.8	9.2	7.8	6.0	4.5	3.9
29	4.5	5.9	7.8	9.4	10.5	10.9	10.4	9.1	6.9	4.2	1.7	.0
Th	-.4	.5	2.3	4.5	6.6	8.3	9.5	9.9	9.4	8.0	6.2	4.7
30	4.0	4.3	5.4	6.8	8.1	9.2	9.7	9.6	8.6	6.8	4.5	2.3
F	.9	.6	1.4	2.9	4.9	6.8	8.6	9.8	10.2	9.6	8.1	6.3
31	4.7	3.8	3.8	4.5	5.6	6.9	8.1	8.9	9.1	8.4	6.8	4.8
Sa	2.9	1.7	1.4	2.1	3.5	5.4	7.3	9.1	10.3	10.6	9.8	8.1

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

JUNE

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 Su	6.1 5.1	4.4 3.4	3.3 2.3	3.0 2.0	3.4 2.7	4.5 4.1	5.9 6.1	7.4 8.2	8.5 9.9	8.8 10.9	8.2 10.9	6.9 9.7
2 M	7.8 7.0	5.6 5.3	3.7 3.7	2.3 2.7	1.9 2.5	2.4 3.3	3.7 5.0	5.4 7.1	7.1 9.2	8.4 10.8	8.8 11.4	8.2 10.9
3 Tu	9.4 8.3	7.2 7.1	4.8 5.4	2.6 3.9	1.2 3.0	.9 3.0	1.7 4.1	3.4 6.0	5.4 8.3	7.3 10.3	8.5 11.5	8.9 11.7
4 W	10.7 9.1	8.8 8.4	6.3 7.1	3.6 5.4	1.4 3.9	.2 3.2	.3 3.5	1.6 5.0	3.6 7.2	5.9 9.5	7.7 11.2	8.8 12.0
5 Th	11.6 9.2	10.2 9.2	7.9 8.4	5.1 6.8	2.3 5.1	.2 3.8	.6 3.4	.1 4.3	1.9 6.1	4.3 8.5	6.6 10.5	8.3 11.8
6 F	12.1 8.9	11.3 9.5	9.4 9.2	6.7 8.1	3.7 6.4	1.0 4.7	.7 3.7	.9 3.8	.4 5.2	2.6 7.3	5.1 9.6	7.4 11.4
7 Sa	12.2 8.1	12.0 9.3	10.6 9.6	8.3 9.0	5.3 7.6	2.3 5.9	.1 4.4	.2 3.8	.7 4.5	1.1 6.2	3.6 8.4	6.1 10.5
8 Su	11.9 7.0	12.3 8.7	11.5 9.5	9.7 9.5	7.1 8.5	4.0 7.0	1.1 5.3	.7 4.2	.2 4.1	.1 5.2	2.0 7.2	4.6 9.4
9 M	11.2 5.6	12.1 7.7	12.0 9.0	10.8 9.5	8.6 9.1	5.8 7.9	2.8 6.4	.3 5.0	.1 4.2	.8 4.6	.7 6.0	3.1 8.1
10 Tu	10.1 4.1	11.5 6.4	12.0 8.2	11.4 9.1	9.8 9.3	7.4 8.6	4.6 7.4	1.8 5.9	.1 4.8	.9 4.4	.1 5.2	1.7 6.8
11 W	8.8 2.7	10.5 5.0	11.5 7.1	11.5 8.5	10.6 9.1	8.8 9.0	6.3 8.2	3.6 7.0	1.2 5.6	.3 4.7	.5 4.7	.6 5.7
12 Th	7.3 1.5	9.1 3.6	10.5 5.8	11.1 7.6	10.8 8.7	9.6 9.1	7.7 8.9	5.4 8.0	2.9 6.7	.9 5.4	.2 4.7	.1 4.8
13 F	5.9 .8	7.5 2.5	9.1 4.5	10.1 6.5	10.4 8.0	9.9 9.0	8.7 9.2	6.9 8.9	4.7 7.9	2.5 6.5	.8 5.2	.2 4.5
14 Sa	4.7 .7	5.8 1.6	7.3 3.3	8.6 5.3	9.4 7.2	9.6 8.6	9.2 9.4	8.1 9.6	6.4 9.1	4.4 7.8	2.4 6.2	1.0 4.8
15 Su	4.1 1.4	4.3 1.4	5.3 2.4	6.5 4.1	7.7 6.1	8.5 7.8	8.9 9.2	8.6 10.1	7.7 10.1	6.2 9.3	4.3 7.7	2.5 5.9
16 M	4.3 2.9	3.4 2.0	3.4 2.1	4.2 3.1	5.4 4.8	6.7 6.8	7.7 8.7	8.4 10.1	8.4 10.9	7.7 10.7	6.3 9.5	4.5 7.6
17 Tu	5.4 4.9	3.5 3.4	2.3 2.6	2.1 2.6	2.8 3.6	4.1 5.4	5.7 7.5	7.2 9.6	8.2 11.1	8.5 11.8	7.9 11.2	6.6 9.6
18 W	7.3 7.1	4.7 5.5	2.4 3.9	1.0 3.0	.6 2.9	1.3 4.0	2.9 6.0	5.0 8.4	6.9 10.6	8.3 12.1	8.8 12.5	8.3 11.7
19 Th	9.7 8.8	6.9 7.6	3.9 5.9	1.2 4.2	.5 3.1	.9 3.1	.1 4.3	2.1 6.6	4.6 9.2	7.0 11.6	8.6 13.0	9.2 13.2
20 F	12.0 9.7	9.6 9.4	6.5 8.0	3.0 6.1	.1 4.2	.9 3.0	.2 3.1	.8 4.6	1.7 7.2	4.6 10.0	7.2 12.4	9.0 13.7
21 Sa	13.6 9.5	12.1 10.2	9.5 9.7	5.9 8.2	2.0 6.0	.2 4.0	.3 2.8	.0 3.1	.2 4.9	1.7 7.7	4.9 10.6	7.6 12.9
22 Su	14.0 8.1	13.8 9.9	12.1 10.5	9.1 9.8	5.2 8.1	1.1 5.7	.2 3.6	.7 2.6	.2 3.2	.0 5.2	2.1 8.1	5.4 11.0
23 M	13.1 6.0	14.1 8.6	13.6 10.3	11.7 10.6	8.5 9.8	4.4 7.8	.4 5.4	.2 3.4	.6 2.6	.2 3.4	.5 5.5	2.8 8.4
24 Tu	11.1 3.6	13.0 6.7	13.8 9.1	13.1 10.5	11.0 10.6	7.7 9.5	3.7 7.4	.0 5.1	.2 3.2	.6 2.6	.2 3.6	.4 5.7
25 W	8.4 1.5	10.9 4.6	12.5 7.4	13.0 9.5	12.2 10.5	10.1 10.5	6.9 9.2	3.2 7.2	.1 4.9	.2 3.2	.2 2.7	.1 3.7
26 Th	5.8 .2	8.2 2.7	10.3 5.5	11.7 8.0	12.0 9.7	11.1 10.6	9.1 10.3	6.2 9.0	2.9 7.0	.1 4.8	.1 3.2	.1 2.9
27 F	3.8 -.1	5.6 1.5	7.7 3.9	9.4 6.4	10.5 8.5	10.7 10.0	10.0 10.6	8.2 10.2	5.7 8.8	2.9 4.8	.6 4.7	.5 3.3
28 Sa	3.0 .7	3.8 1.3	5.3 2.9	6.9 5.0	8.3 7.1	9.3 8.9	9.5 10.2	9.0 10.7	7.5 10.1	5.3 8.7	3.0 6.6	1.3 4.6
29 Su	3.2 2.2	2.9 1.9	3.5 2.6	4.6 4.0	6.0 5.9	7.2 7.7	8.2 9.4	8.6 10.5	8.2 10.7	7.1 10.0	5.3 8.4	3.5 6.3
30 M	4.4 4.1	3.0 3.1	2.6 3.0	2.9 3.6	3.8 4.9	5.0 6.6	6.3 8.3	7.4 9.8	8.0 10.7	7.8 10.8	6.9 9.8	5.5 8.1

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (M.L.L.W. chart datum).

BEST COPY AVAILABLE

VALDEZ, ALASKA, 1986

Lat. 61° 08'N Long. 146° 22'W

JULY

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	6.0	4.0	2.6	2.0	2.2	3.0	4.4	5.8	7.1	7.8	7.8	7.0
Tu	5.9	4.7	3.9	3.8	4.4	5.6	7.2	8.9	10.3	11.0	10.7	9.6
2	7.7	5.5	3.4	1.9	1.2	1.5	2.5	4.1	5.8	7.1	7.9	7.9
W	7.3	6.3	5.2	4.4	4.3	4.8	6.1	7.8	9.6	10.8	11.2	10.6
3	9.2	7.1	4.8	2.6	1.1	.5	.9	2.3	4.2	6.1	7.5	8.2
Th	8.2	7.6	6.5	5.4	4.6	4.4	5.2	6.7	8.5	10.2	11.2	11.3
4	10.5	8.8	6.5	3.9	1.6	.2	-.1	.8	2.6	4.7	6.6	8.0
F	8.7	8.5	7.7	6.5	5.2	4.4	4.5	5.6	7.3	9.3	10.8	11.6
5	11.4	10.2	8.2	5.6	2.8	.6	-.6	-.4	1.0	3.2	5.5	7.4
Sa	8.6	9.1	8.7	7.6	6.1	4.8	4.2	4.6	6.1	8.1	10.0	11.4
6	11.9	11.3	9.8	7.3	4.4	1.6	-.4	-1.1	-.3	1.6	4.0	6.3
Su	8.1	9.2	9.3	8.6	7.2	5.5	4.3	4.1	5.0	6.8	8.9	10.8
7	11.9	12.0	11.0	9.0	6.2	3.1	.5	-1.1	-1.1	.2	2.5	5.0
M	7.3	8.9	9.6	9.3	8.2	6.5	4.9	3.9	4.1	5.5	7.6	9.7
8	11.4	12.2	11.8	10.4	8.0	4.9	1.9	-.5	-1.4	-.8	1.1	3.6
Tu	6.2	8.2	9.5	9.7	9.0	7.6	5.7	4.3	3.7	4.4	6.1	8.4
9	10.4	11.8	12.1	11.3	9.5	6.7	3.6	.8	-1.0	-1.3	-.1	2.2
W	4.9	7.3	9.0	9.9	9.7	8.6	6.8	5.0	3.8	3.7	4.8	6.8
10	9.0	10.9	11.8	11.7	10.5	8.3	5.4	2.4	.0	-1.1	-.8	1.0
Th	3.6	6.2	8.4	9.7	10.0	9.4	8.0	6.1	4.4	3.5	3.8	5.2
11	7.3	9.4	10.9	11.5	10.9	9.4	7.1	4.3	1.6	-.3	-.8	.2
F	2.4	5.1	7.5	9.3	10.1	10.0	9.1	7.4	5.5	3.9	3.3	3.9
12	5.5	7.6	9.4	10.5	10.7	9.9	8.3	6.0	3.5	1.2	-.1	.0
Sa	1.5	3.9	6.5	8.6	10.0	10.4	10.0	8.7	6.9	4.9	3.5	3.0
13	3.8	5.4	7.4	8.9	9.8	9.8	9.0	7.5	5.4	3.2	1.3	.6
Su	1.2	2.9	5.3	7.7	9.5	10.5	10.6	9.9	8.5	6.5	4.4	3.0
14	2.7	3.5	5.0	6.7	8.0	8.8	8.8	8.2	6.9	5.2	3.3	1.9
M	1.6	2.4	4.3	6.5	8.5	10.1	10.9	10.9	10.0	8.3	6.1	4.0
15	2.5	2.2	2.8	4.1	5.6	6.9	7.8	8.2	7.8	6.8	5.3	3.8
Tu	2.7	2.6	3.5	5.2	7.2	9.1	10.5	11.3	11.2	10.1	8.2	5.9
16	3.6	2.0	1.4	1.8	2.9	4.4	5.9	7.1	7.8	7.8	7.1	5.9
W	4.5	3.6	3.5	4.3	5.7	7.6	9.5	10.9	11.7	11.6	10.4	8.3
17	5.8	3.3	1.4	.5	.6	1.6	3.2	5.1	6.7	7.8	8.1	7.6
Th	6.5	5.3	4.3	4.0	4.5	5.8	7.7	9.7	11.4	12.3	12.0	10.7
18	8.5	5.7	2.9	.6	-.7	-.7	.5	2.4	4.7	6.7	8.1	8.6
F	8.3	7.3	5.9	4.6	3.9	4.3	5.6	7.7	10.0	11.9	12.8	12.6
19	11.1	8.7	5.6	2.4	-.3	-1.8	-1.8	-.3	2.1	4.8	7.1	8.7
Sa	9.3	9.0	7.8	6.0	4.4	3.5	3.8	5.4	7.8	10.3	12.3	13.3
20	13.0	11.5	8.8	5.3	1.6	-1.3	-2.8	-2.5	-.6	2.2	5.2	7.7
Su	9.4	10.0	9.5	7.9	5.8	3.8	2.8	3.3	5.2	7.9	10.6	12.7
21	13.7	13.3	11.6	8.5	4.7	.8	-2.2	-3.4	-2.6	-.3	2.8	6.0
M	8.6	10.2	10.6	9.7	7.7	5.2	3.1	2.2	3.0	5.2	8.1	10.9
22	13.0	13.8	13.3	11.2	7.9	3.8	.0	-2.7	-3.4	-2.2	.5	3.9
Tu	7.1	9.5	10.9	10.9	9.6	7.2	4.5	2.5	1.8	2.9	5.3	8.3
23	11.1	12.9	13.6	12.8	10.5	6.9	2.9	-.6	-2.7	-2.9	-.1	1.8
W	5.2	8.2	10.4	11.3	10.9	9.1	6.5	3.8	2.0	1.7	3.1	5.6
24	8.5	11.0	12.6	12.9	11.8	9.3	5.9	2.2	-.8	-2.2	-1.8	.3
Th	3.4	6.6	9.3	11.0	11.5	10.6	8.5	5.9	3.3	1.8	1.8	3.3
25	5.8	8.5	10.6	11.8	11.8	10.5	8.1	5.0	1.8	-.5	-1.2	-.3
F	2.1	5.1	7.9	10.1	11.3	11.3	10.1	7.9	5.3	3.0	1.8	2.1
26	3.7	5.9	8.2	9.9	10.7	10.5	9.2	7.1	4.4	1.8	.3	.2
Sa	1.5	3.9	6.6	8.9	10.5	11.2	10.9	9.5	7.3	4.9	2.9	2.0
27	2.5	3.9	5.8	7.6	8.9	9.5	9.2	8.1	6.3	4.2	2.3	1.4
Su	1.8	3.3	5.5	7.7	9.5	10.6	11.0	10.4	8.9	6.8	4.6	2.9
28	2.3	2.7	4.0	5.5	6.9	7.9	8.4	8.2	7.4	6.0	4.4	3.2
M	2.8	3.4	4.8	6.6	8.3	9.7	10.5	10.6	9.9	8.5	6.5	4.5
29	3.0	2.5	2.8	3.7	4.9	6.0	7.0	7.6	7.7	7.1	6.1	4.9
Tu	4.1	4.0	4.7	5.8	7.2	8.6	9.7	10.4	10.4	9.6	8.1	6.3
30	4.4	3.1	2.5	2.6	3.2	4.2	5.3	6.4	7.2	7.5	7.2	6.5
W	5.6	5.1	5.0	5.4	6.3	7.4	8.7	9.7	10.3	10.3	9.5	8.0
31	6.1	4.3	2.9	2.1	2.0	2.5	3.6	4.9	6.3	7.2	7.7	7.5
Th	6.9	6.2	5.7	5.4	5.6	6.3	7.5	8.8	9.9	10.5	10.4	9.5

Time meridian 135° W. 0 is midnight. 12 is noon.
 Heights are referred to mean lower low water (M.O.S. chart datum).

BEST COPY AVAILABLE

AUGUST

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 F	7.9 8.0	6.0 7.4	4.1 6.5	2.5 5.8	1.5 5.3	1.3 5.4	2.0 6.2	3.3 7.6	5.0 9.0	6.5 10.3	7.6 10.8	8.1 10.6
2 Sa	9.5 8.6	7.8 8.4	5.6 7.6	3.4 6.4	1.6 5.4	.6 4.8	.7 5.1	1.7 6.2	3.5 7.9	5.4 9.6	7.1 10.8	8.2 11.3
3 Su	10.9 8.9	9.5 9.2	7.4 8.6	4.9 7.3	2.4 5.8	.6 4.6	-.2 4.3	-.3 4.9	1.9 6.5	4.0 8.5	6.2 10.3	7.9 11.5
4 M	11.7 8.9	11.0 9.7	9.2 9.5	6.7 8.4	3.8 6.7	1.2 4.9	-.5 3.8	-.7 3.9	.5 5.1	2.6 7.1	5.0 9.3	7.3 11.1
5 Tu	12.1 8.5	12.0 9.8	10.8 10.2	8.5 9.4	5.5 7.7	2.3 5.7	-.1 3.9	-1.2 3.2	-.7 3.7	1.1 5.5	3.7 7.9	6.3 10.2
6 W	11.8 7.8	12.5 9.7	11.9 10.6	10.1 10.3	7.3 8.9	4.0 6.8	.9 4.6	-1.0 3.0	-1.4 2.8	-.1 3.9	2.3 6.2	5.2 8.7
7 Th	11.0 6.9	12.3 9.3	12.5 10.7	11.3 11.0	9.0 10.0	5.8 8.1	2.5 5.7	-.1 3.5	-1.4 2.4	-.9 2.7	1.0 4.4	3.9 6.9
8 F	9.5 5.8	11.5 8.6	12.3 10.5	12.0 11.4	10.3 10.9	7.6 9.4	4.4 7.1	1.4 4.6	-.7 2.6	-1.1 1.9	.2 2.8	2.7 4.9
9 Sa	7.5 4.6	9.9 7.7	11.5 10.1	11.9 11.4	11.0 11.5	9.1 10.5	6.3 8.6	3.3 6.0	.8 3.6	-.5 2.0	-.2 1.7	1.8 3.0
10 Su	5.3 3.6	7.8 6.5	9.9 9.2	11.0 11.1	11.0 11.8	9.9 11.4	7.9 10.0	5.3 7.8	2.8 5.2	.9 2.9	.3 1.6	1.3 1.7
11 M	3.1 2.9	5.4 5.4	7.7 8.0	9.4 10.2	10.1 11.5	9.9 11.8	8.8 11.0	7.0 9.4	4.8 7.2	2.8 4.7	1.5 2.6	1.5 1.5
12 Tu	1.7 2.9	3.1 4.5	5.1 6.7	7.0 9.0	8.4 10.7	9.0 11.5	8.8 11.6	8.0 10.8	6.6 9.1	4.9 6.9	3.3 4.5	2.5 2.5
13 W	1.5 3.7	1.7 4.1	2.8 5.5	4.4 7.4	6.0 9.2	7.2 10.6	7.9 11.4	8.0 11.4	7.6 10.7	6.6 9.2	5.3 7.0	4.1 4.6
14 Th	2.6 5.1	1.5 4.6	1.4 4.9	2.1 5.9	3.4 7.3	4.8 8.9	6.1 10.3	7.1 11.2	7.7 11.5	7.7 11.0	7.0 9.5	6.0 7.4
15 F	5.0 6.9	2.8 5.8	1.3 5.1	.7 5.0	1.1 5.6	2.1 6.8	3.6 8.4	5.3 10.0	6.8 11.2	7.8 11.8	8.1 11.4	7.7 10.1
16 Sa	7.9 8.5	5.3 7.5	2.8 6.2	.8 5.0	-.2 4.5	-.1 4.8	1.1 6.0	2.9 7.9	5.1 9.9	7.0 11.5	8.3 12.3	8.9 12.1
17 Su	10.7 9.7	8.4 9.3	5.4 7.9	2.4 6.1	.0 4.4	-1.2 3.5	-1.0 3.8	.5 5.3	2.8 7.6	5.4 10.0	7.7 12.0	9.2 12.9
18 M	12.7 10.2	11.2 10.6	8.5 9.7	5.1 7.8	1.6 5.4	-1.0 3.3	-2.1 2.4	-1.5 3.0	.5 4.9	3.4 7.7	6.3 10.4	8.7 12.4
19 Tu	13.4 10.0	13.0 11.2	11.2 11.1	8.1 9.7	4.3 7.1	.7 4.3	-1.8 2.2	-2.5 1.5	-1.3 2.5	1.3 4.9	4.5 8.0	7.6 10.8
20 W	12.8 9.1	13.6 11.2	12.9 11.9	10.7 11.2	7.2 9.1	3.2 6.1	-.2 3.2	-2.2 1.2	-2.2 1.0	-.4 2.5	2.7 5.3	6.1 8.4
21 Th	11.2 7.8	12.9 10.5	13.3 12.0	12.2 12.1	9.6 10.8	6.0 8.2	2.2 5.0	-.7 2.2	-.7 2.0	-1.3 1.0	1.2 2.9	4.5 5.8
22 F	8.8 6.4	11.3 9.4	12.6 11.5	12.6 12.4	11.1 11.8	8.3 9.9	4.9 7.1	1.5 4.0	-.7 1.6	-1.1 .6	.3 1.4	3.1 3.5
23 Sa	6.4 5.2	9.1 8.2	11.1 10.6	11.9 12.0	11.5 12.1	9.7 11.0	7.1 8.8	4.0 6.0	1.4 3.2	.0 1.4	.4 .9	2.3 2.0
24 Su	4.3 4.4	6.8 7.0	9.1 9.5	10.5 11.2	10.8 11.9	10.1 11.5	8.4 10.0	6.1 7.8	3.7 5.2	1.8 2.9	1.3 1.5	2.2 1.5
25 M	2.8 4.1	4.9 6.1	7.0 8.4	8.7 10.1	9.6 11.2	9.6 11.3	8.9 10.6	7.5 9.1	5.6 7.0	3.8 4.8	2.8 2.9	2.8 2.0
26 Tu	2.2 4.4	3.5 5.7	5.2 7.4	6.8 9.0	7.9 10.1	8.5 10.7	8.6 10.6	8.0 9.8	6.9 8.4	5.6 6.6	4.4 4.7	3.9 3.2
27 W	2.6 5.1	2.9 5.6	3.8 6.7	5.0 7.9	6.2 9.0	7.0 9.8	7.6 10.1	7.8 10.0	7.6 9.4	6.9 8.2	6.0 6.5	5.3 4.9
28 Th	3.6 6.1	3.0 6.0	3.1 6.3	3.7 7.0	4.5 7.8	5.4 8.6	6.3 9.3	7.1 9.8	7.5 9.8	7.5 9.3	7.2 8.2	6.6 6.7
29 F	5.2 7.1	3.9 6.6	3.1 6.3	2.9 6.4	3.1 6.7	3.8 7.3	4.8 8.2	5.9 9.1	7.0 9.8	7.7 10.0	7.9 9.6	7.6 8.5
30 Sa	7.0 8.2	5.3 7.5	3.8 6.7	2.7 6.1	2.2 5.8	2.3 6.1	3.2 6.8	4.5 8.0	6.0 9.3	7.3 10.2	8.2 10.5	8.5 10.0
31 Su	8.8 9.1	7.0 8.5	5.0 7.5	3.2 6.3	1.8 5.3	1.3 5.0	1.7 5.4	3.0 6.6	4.8 8.3	6.6 9.8	8.1 10.9	9.0 11.1

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

VALDEZ, ALASKA, 1986

Lat. 61° 08'N Long. 146° 22'W

SEPTEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	10.4	8.9	6.7	4.2	2.1	.7	.5	1.5	3.3	5.6	7.7	9.2
M	9.8	9.5	8.5	6.9	5.3	4.2	4.1	5.1	6.9	8.9	10.7	11.7
2	11.7	10.6	8.5	5.8	3.0	.8	-.2	.2	1.9	4.4	6.9	9.0
Tu	10.3	10.5	9.6	7.9	5.8	4.0	3.1	3.5	5.1	7.5	9.8	11.6
3	12.4	11.9	10.3	7.6	4.5	1.5	-.4	-.7	.6	3.1	6.0	8.6
W	10.5	11.2	10.8	9.2	6.8	4.3	2.6	2.2	3.3	5.6	8.4	10.8
4	12.4	12.7	11.7	9.5	6.3	3.0	.3	-.9	-.3	1.8	4.8	7.9
Th	10.3	11.7	11.8	10.5	8.2	5.3	2.8	1.5	1.7	3.6	6.4	9.3
5	11.6	12.8	12.6	11.0	8.3	4.9	1.7	-.4	-.7	.8	3.6	6.9
F	9.8	11.8	12.5	11.7	9.7	6.8	3.8	1.5	.7	1.7	4.1	7.2
6	10.1	12.0	12.7	12.0	9.9	7.0	3.7	1.0	-.3	.3	2.5	5.7
Sa	8.9	11.5	12.8	12.7	11.2	8.5	5.4	2.4	.6	.4	2.0	4.7
7	7.9	10.5	12.0	12.1	11.0	8.7	5.8	3.0	1.0	.5	1.8	4.5
Su	7.8	10.7	12.6	13.1	12.3	10.2	7.3	4.1	1.5	.1	.5	2.4
8	5.3	8.2	10.3	11.3	11.1	9.8	7.7	5.1	2.9	1.6	1.8	3.6
M	6.5	9.5	11.8	13.0	12.9	11.5	9.2	6.3	3.4	1.1	.2	.9
9	2.9	5.6	8.0	9.7	10.3	10.0	8.8	7.0	5.0	3.3	2.6	3.3
Tu	5.3	8.0	10.5	12.2	12.7	12.2	10.8	8.5	5.8	3.1	1.2	.6
10	1.3	3.2	5.4	7.4	8.6	9.1	8.9	8.1	6.8	5.3	4.1	3.9
W	4.7	6.6	8.8	10.7	11.8	12.1	11.5	10.2	8.2	5.8	3.4	1.7
11	1.1	1.7	3.1	4.8	6.3	7.4	8.1	8.3	7.9	7.1	6.0	5.1
Th	4.9	5.7	7.1	8.7	10.1	11.1	11.4	11.1	10.1	8.5	6.3	4.0
12	2.3	1.5	1.6	2.5	3.8	5.1	6.4	7.5	8.1	8.2	7.7	6.8
F	6.0	5.6	5.9	6.8	8.0	9.2	10.2	10.9	11.1	10.5	9.0	7.0
13	4.7	2.8	1.6	1.2	1.6	2.7	4.2	5.9	7.5	8.5	8.9	8.5
Sa	7.5	6.5	5.7	5.4	5.9	6.8	8.2	9.6	10.8	11.4	11.1	9.8
14	7.7	5.2	2.9	1.2	.4	.7	2.0	3.9	6.1	8.1	9.4	9.8
Su	9.2	8.0	6.4	5.1	4.3	4.6	5.7	7.5	9.4	11.1	11.9	11.7
15	10.4	8.1	5.3	2.5	.4	-.5	.1	1.8	4.3	7.0	9.1	10.5
M	10.7	9.7	7.9	5.8	3.9	3.0	3.3	4.9	7.2	9.6	11.6	12.5
16	12.3	10.7	8.0	4.8	1.7	-.4	-1.0	.1	2.5	5.5	8.3	10.5
Tu	11.5	11.3	9.8	7.3	4.6	2.4	1.6	2.4	4.6	7.4	10.1	12.1
17	13.0	12.4	10.5	7.4	3.9	.8	-1.0	-.9	.9	3.9	7.1	9.9
W	11.8	12.3	11.4	9.2	6.1	3.1	1.1	.7	2.2	4.8	7.9	10.7
18	12.5	13.1	12.1	9.8	6.4	2.8	.1	-1.0	-.1	2.4	5.7	9.0
Th	11.5	12.8	12.6	10.9	8.1	4.6	1.7	.1	.4	2.4	5.5	8.7
19	11.2	12.7	12.7	11.3	8.6	5.2	2.0	.0	-.2	1.5	4.4	7.8
F	10.7	12.6	13.1	12.2	9.8	6.6	3.2	.6	-.2	.7	3.2	6.4
20	9.3	11.5	12.4	12.0	10.2	7.4	4.2	1.7	.6	1.2	3.5	6.6
Sa	9.6	12.0	13.1	12.8	11.2	8.4	5.1	2.0	.2	.0	1.5	4.2
21	7.2	9.8	11.4	11.7	10.9	8.9	6.3	3.7	2.0	1.7	3.0	5.6
Su	8.5	11.0	12.6	12.9	11.9	9.8	6.9	3.9	1.4	.3	.8	2.6
22	5.3	7.9	9.9	10.9	10.8	9.7	7.8	5.6	3.8	2.8	3.3	5.0
M	7.4	9.9	11.7	12.4	12.1	10.7	8.5	5.8	3.2	1.4	.9	1.8
23	3.7	6.1	8.1	9.5	10.0	9.6	8.6	7.1	5.5	4.3	4.0	4.9
Tu	6.6	8.8	10.6	11.6	11.7	11.0	9.5	7.4	5.1	3.1	1.9	1.8
24	2.8	4.6	6.4	7.9	8.7	9.0	8.7	7.9	6.8	5.8	5.1	5.2
W	6.2	7.8	9.4	10.5	11.0	10.8	10.0	8.6	6.9	5.0	3.4	2.6
25	2.7	3.6	4.9	6.2	7.2	7.9	8.2	8.1	7.7	7.0	6.3	6.0
Th	6.3	7.1	8.3	9.3	10.0	10.2	10.0	9.3	8.3	6.8	5.3	4.0
26	3.3	3.3	3.9	4.7	5.7	6.5	7.2	7.8	8.0	7.9	7.4	6.9
F	6.7	6.8	7.4	8.1	8.7	9.2	9.5	9.5	9.2	8.4	7.1	5.7
27	4.4	3.6	3.4	3.6	4.2	5.0	5.9	7.0	7.9	8.4	8.3	7.9
Sa	7.4	6.9	6.8	7.0	7.4	7.9	8.6	9.2	9.6	9.5	8.8	7.5
28	6.0	4.6	3.5	2.9	2.9	3.5	4.5	5.9	7.4	8.5	9.0	8.9
Su	8.3	7.4	6.7	6.2	6.1	6.5	7.3	8.4	9.5	10.1	10.1	9.3
29	7.8	6.0	4.2	2.8	2.1	2.2	3.1	4.7	6.6	8.3	9.5	9.8
M	9.4	8.3	7.0	5.8	5.0	4.9	5.7	7.1	8.7	10.1	10.8	10.7
30	9.6	7.7	5.5	3.4	1.8	1.2	1.8	3.4	5.6	7.8	9.6	10.6
Tu	10.5	9.5	7.8	5.9	4.4	3.6	3.9	5.3	7.3	9.4	11.0	11.6

Time meridian 135° W. 0 is midnight, 12 is noon.
 Heights are referred to mean lower low water (K.O.S. chart datum).

BEST COPY AVAILABLE

OCTOBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	11.1	9.6	7.3	4.6	2.2	.8	.7	2.0	4.4	7.1	9.5	11.1
W	11.5	10.8	9.1	6.7	4.3	2.7	2.3	3.3	5.4	8.0	10.3	11.8
2	12.2	11.2	9.2	6.4	3.4	1.2	.2	.9	3.1	6.0	9.0	11.2
Th	12.3	12.1	10.6	8.1	5.1	2.5	1.1	1.3	3.1	5.9	8.9	11.2
3	12.5	12.4	11.0	8.4	5.3	2.3	.5	.3	1.9	4.8	8.1	11.0
F	12.8	13.2	12.1	9.8	6.5	3.2	.8	-.1	.9	3.5	6.7	9.8
4	11.9	12.8	12.2	10.3	7.4	4.2	1.6	.4	1.2	3.6	6.9	10.2
Sa	12.7	13.8	13.4	11.6	8.5	4.8	1.5	-.5	-.7	1.0	4.1	7.5
5	10.4	12.2	12.7	11.6	9.4	6.4	3.4	1.4	1.1	2.6	5.5	9.0
Su	12.0	13.8	14.2	13.0	10.5	7.0	3.3	.3	-1.2	-.7	1.5	4.8
6	8.1	10.7	12.1	12.0	10.7	8.4	5.6	3.2	1.9	2.3	4.3	7.4
M	10.6	13.1	14.3	13.9	12.2	9.3	5.7	2.2	-.3	-1.2	-.3	2.2
7	5.4	8.4	10.5	11.4	11.1	9.7	7.6	5.3	3.5	2.8	3.7	6.0
Tu	8.9	11.7	13.5	14.0	13.1	11.1	8.2	4.9	1.8	-.2	-.7	.4
8	2.8	5.7	8.2	9.8	10.4	10.1	8.9	7.3	5.5	4.2	3.9	5.0
W	7.2	9.8	11.9	13.1	13.1	12.1	10.2	7.7	4.7	2.1	.3	.0
9	1.2	3.2	5.5	7.5	8.8	9.3	9.2	8.5	7.3	6.0	5.0	5.0
Th	6.0	7.8	9.8	11.3	12.1	12.1	11.3	9.8	7.6	5.1	2.8	1.2
10	.9	1.7	3.2	5.0	6.6	7.8	8.6	8.9	8.6	7.8	6.7	5.8
F	5.7	6.4	7.7	9.1	10.2	10.9	11.1	10.8	9.7	8.0	5.8	3.6
11	2.0	1.4	1.8	2.9	4.2	5.7	7.1	8.4	9.1	9.1	8.4	7.4
Sa	6.4	5.9	6.1	6.8	7.8	8.9	9.8	10.5	10.7	10.1	8.6	6.6
12	4.4	2.6	1.6	1.6	2.3	3.6	5.3	7.1	8.8	9.8	9.9	9.1
Su	7.8	6.5	5.5	5.1	5.4	6.4	7.7	9.2	10.4	11.0	10.6	9.3
13	7.2	4.8	2.7	1.4	1.1	1.8	3.4	5.6	7.8	9.7	10.7	10.7
M	9.6	7.9	6.0	4.4	3.7	4.0	5.1	7.0	9.0	10.6	11.4	11.1
14	9.7	7.4	4.8	2.4	.9	.7	1.8	3.9	6.5	9.1	10.9	11.7
Tu	11.2	9.7	7.3	4.9	3.0	2.2	2.7	4.4	6.8	9.2	11.0	11.8
15	11.4	9.7	7.2	4.3	1.9	.5	.8	2.5	5.1	8.1	10.6	12.1
W	12.4	11.4	9.1	6.2	3.4	1.4	.9	2.1	4.4	7.2	9.8	11.5
16	12.1	11.4	9.4	6.6	3.6	1.3	.5	1.5	3.8	6.9	9.8	12.0
Th	13.0	12.7	10.9	8.0	4.6	1.7	.1	.3	2.1	4.9	7.9	10.4
17	11.9	12.1	11.0	8.6	5.7	2.9	1.2	1.1	2.8	5.6	8.8	11.5
F	13.1	13.4	12.3	9.8	6.4	3.0	.4	-.6	.3	2.7	5.8	8.8
18	11.0	12.0	11.8	10.2	7.7	4.8	2.5	1.5	2.3	4.6	7.6	10.6
Sa	12.7	13.6	13.1	11.2	8.2	4.7	1.5	-.5	-.6	1.0	3.8	6.9
19	9.6	11.3	11.8	11.1	9.2	6.7	4.2	2.6	2.5	3.9	6.5	9.5
Su	11.9	13.3	13.4	12.2	9.8	6.5	3.2	.6	-.6	.0	2.1	5.0
20	7.9	10.1	11.3	11.3	10.2	8.2	6.0	4.0	3.2	3.8	5.7	8.3
M	10.8	12.6	13.2	12.6	10.8	8.2	5.0	2.2	.3	-.1	1.1	3.4
21	6.1	8.6	10.2	10.8	10.4	9.2	7.4	5.6	4.3	4.2	5.2	7.3
Tu	9.6	11.6	12.6	12.6	11.4	9.4	6.8	4.1	1.8	.6	.8	2.3
22	4.6	6.9	8.8	9.8	10.1	9.5	8.4	6.9	5.6	5.0	5.3	6.6
W	8.5	10.4	11.7	12.1	11.6	10.2	8.2	5.9	3.7	2.0	1.3	1.9
23	3.4	5.4	7.2	8.5	9.2	9.2	8.8	7.9	6.9	6.0	5.7	6.3
Th	7.6	9.2	10.5	11.2	11.2	10.5	9.2	7.5	5.5	3.7	2.5	2.1
24	2.8	4.1	5.7	7.0	8.0	8.5	8.6	8.4	7.8	7.1	6.5	6.4
F	7.0	8.1	9.2	10.1	10.4	10.2	9.6	8.6	7.2	5.6	4.0	3.0
25	2.8	3.3	4.4	5.6	6.6	7.5	8.1	8.5	8.1	7.4	7.4	6.9
Sa	6.8	7.2	8.0	8.7	9.3	9.5	9.5	9.2	8.5	7.3	5.8	4.4
26	3.4	3.1	3.5	4.2	5.2	6.2	7.3	8.2	8.8	8.9	8.5	7.7
Su	7.1	6.8	6.9	7.3	7.8	8.4	8.9	9.3	9.3	8.7	7.6	6.1
27	4.6	3.5	3.0	3.2	3.9	4.9	6.3	7.7	8.9	9.5	9.5	8.8
M	7.8	6.8	6.1	6.0	6.2	6.8	7.7	8.7	9.5	9.7	9.1	7.9
28	6.2	4.5	3.3	2.6	2.8	3.7	5.1	6.9	8.7	10.0	10.4	10.0
Tu	8.8	7.3	5.9	4.9	4.6	5.0	6.0	7.5	9.0	10.0	10.2	9.5
29	8.0	6.1	4.2	2.7	2.1	2.5	3.9	6.0	8.2	10.1	11.2	11.2
W	10.2	8.5	6.4	4.5	3.3	3.0	3.9	5.6	7.7	9.6	10.7	10.8
30	9.8	8.0	5.7	3.6	2.1	1.8	2.7	4.8	7.4	9.9	11.7	12.4
Th	11.8	10.0	7.5	4.8	2.6	1.4	1.7	3.3	5.7	8.3	10.4	11.4
31	11.2	9.9	7.7	5.2	2.9	1.6	1.8	3.5	5.2	9.2	11.7	13.1
F	13.2	11.8	9.3	6.1	3.0	.7	-.1	.8	3.2	6.2	9.1	11.1

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

BEST COPY AVAILABLE

NOVEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1	12.0	11.5	9.8	7.3	4.5	2.3	1.5	2.5	4.9	8.0	11.1	13.3
Sa	14.1	13.5	11.4	8.1	4.4	1.1	-1.0	-1.2	.5	3.5	6.9	9.8
2	11.7	12.2	11.4	9.4	6.6	3.9	2.1	2.0	3.6	6.5	9.9	12.7
Su	14.5	14.6	13.2	10.5	6.7	2.7	-2.5	-2.1	-1.6	.7	4.1	7.5
3	10.3	11.9	12.1	11.0	8.8	6.0	3.6	2.3	2.8	4.9	8.1	11.4
M	13.9	15.0	14.5	12.6	9.3	5.3	1.4	-1.4	-2.4	-1.4	1.3	4.7
4	8.0	10.5	11.7	11.7	10.3	8.1	5.6	3.6	2.9	3.9	6.3	9.4
Tu	12.4	14.3	14.9	13.9	11.6	8.2	4.3	.7	-1.6	-2.2	-2.8	2.0
5	5.3	8.2	10.3	11.2	11.0	9.7	7.7	5.5	4.0	3.7	4.9	7.4
W	10.2	12.7	14.1	14.2	13.0	10.6	7.4	3.8	.7	-1.2	-1.4	.1
6	2.7	5.6	8.1	9.8	10.5	10.3	9.2	7.5	5.7	4.5	4.5	5.8
Th	8.0	10.4	12.3	13.2	13.1	11.9	9.8	7.0	3.9	1.2	-.4	-.5
7	.9	3.1	5.6	7.7	9.1	9.8	9.8	9.0	7.7	6.2	5.2	5.1
F	6.2	8.0	9.9	11.3	12.0	11.9	11.0	9.4	7.0	4.3	1.9	.5
8	.4	1.5	3.4	5.4	7.1	8.6	9.5	9.8	9.3	8.1	6.7	5.6
Sa	5.4	6.1	7.4	8.8	9.9	10.6	10.9	10.5	9.3	7.3	4.9	2.8
9	1.4	1.2	1.9	3.4	5.1	6.9	8.5	9.7	10.2	9.8	8.6	7.1
Su	5.8	5.3	5.5	6.2	7.3	8.5	9.5	10.2	10.2	9.4	7.7	5.5
10	3.5	2.1	1.6	2.1	3.3	5.1	7.0	8.9	10.3	10.8	10.3	8.9
M	7.2	5.6	4.6	4.3	4.8	5.9	7.3	8.8	9.9	10.2	9.6	8.1
11	6.0	3.9	2.4	1.8	2.2	3.5	5.5	7.7	9.8	11.2	11.5	10.7
Tu	9.0	6.8	4.8	3.4	2.9	3.4	4.8	6.6	8.5	9.9	10.4	9.8
12	8.3	6.2	4.1	2.5	1.9	2.5	4.1	6.4	8.9	11.0	12.1	12.1
W	10.8	8.6	6.0	3.6	2.0	1.6	2.4	4.2	6.5	8.7	10.2	10.6
13	10.0	8.4	6.2	4.0	2.5	2.1	3.1	5.2	7.8	10.3	12.1	12.8
Th	12.2	10.4	7.7	4.7	2.1	.6	.6	2.0	4.4	7.0	9.2	10.5
14	10.8	9.9	8.1	5.9	3.7	2.5	2.6	4.1	6.6	9.4	11.6	13.0
F	13.0	11.8	9.5	6.3	3.1	.7	-.4	.3	2.3	5.0	7.7	9.8
15	10.9	10.8	9.7	7.7	5.4	3.5	2.7	3.5	5.5	8.2	10.8	12.7
Sa	13.4	12.8	11.0	8.1	4.7	1.6	-.4	-.7	.6	3.1	6.0	8.6
16	10.3	11.1	10.6	9.2	7.0	4.9	3.4	3.3	4.7	7.1	9.8	12.0
Su	13.3	13.3	12.1	9.7	6.5	3.1	.4	-.9	-.5	1.5	4.3	7.1
17	9.4	10.7	11.0	10.2	8.5	6.4	4.5	3.7	4.2	6.0	8.6	11.0
M	12.7	13.4	12.8	11.0	8.2	4.9	1.8	-.3	-.8	.3	2.6	5.5
18	8.0	9.9	10.8	10.6	9.5	7.7	5.8	4.5	4.3	5.3	7.4	9.8
Tu	11.8	13.0	13.0	11.8	9.6	6.7	3.6	1.0	-.3	-.2	1.4	3.9
19	6.5	8.7	10.1	10.5	10.0	8.7	7.1	5.6	4.7	5.0	6.5	8.6
W	10.7	12.2	12.7	12.2	10.6	8.3	5.5	2.8	.8	.1	.7	2.6
20	4.9	7.2	9.0	9.9	10.0	9.3	8.1	6.7	5.6	5.2	5.9	7.4
Th	9.4	11.1	12.0	12.1	11.1	9.4	7.2	4.6	2.4	1.0	.7	1.7
21	3.6	5.7	7.6	8.9	9.5	9.4	8.8	7.7	6.6	5.8	5.8	6.6
F	8.1	9.8	11.0	11.5	11.2	10.1	8.4	6.4	4.2	2.3	1.3	1.4
22	2.6	4.4	6.2	7.7	8.7	9.2	9.1	8.5	7.6	6.7	6.1	6.2
Sa	7.1	8.4	9.7	10.5	10.7	10.2	9.2	7.8	5.9	4.0	2.5	1.8
23	2.1	3.3	4.9	6.4	7.7	8.6	9.1	9.1	8.6	7.7	6.8	6.2
Su	6.4	7.1	8.2	9.1	9.7	9.8	9.5	8.7	7.4	5.8	4.0	2.7
24	2.2	2.7	3.8	5.2	6.6	7.8	8.8	9.4	9.4	8.8	7.7	6.7
M	6.1	6.1	6.6	7.4	8.2	8.8	9.1	9.1	8.5	7.4	5.8	4.2
25	3.0	2.6	3.0	4.1	5.5	6.9	8.3	9.4	10.0	9.9	9.0	7.7
Tu	6.4	5.5	5.3	5.6	6.4	7.2	8.1	8.8	9.0	8.6	7.5	5.9
26	4.3	3.2	2.8	3.2	4.3	5.9	7.6	9.2	10.4	10.8	10.3	9.0
W	7.3	5.6	4.4	4.0	4.3	5.1	6.4	7.8	8.9	9.3	8.9	7.8
27	6.1	4.5	3.3	2.9	3.4	4.7	6.6	8.7	10.5	11.6	11.6	10.6
Th	8.8	6.5	4.4	2.9	2.3	2.8	4.1	6.0	7.8	9.2	9.8	9.4
28	8.1	6.4	4.6	3.3	2.9	3.6	5.3	7.7	10.1	11.9	12.7	12.3
F	10.7	8.2	5.4	2.8	1.1	.6	1.5	3.4	5.9	8.2	9.8	10.4
29	9.8	8.4	6.5	4.5	3.2	2.9	4.0	6.3	9.0	11.5	13.2	13.6
Sa	12.6	10.4	7.3	4.0	1.1	-.7	-.8	.7	3.3	6.2	8.8	10.4
30	10.9	10.2	8.6	6.4	4.3	3.0	3.1	4.7	7.4	10.4	12.9	14.2
Su	14.1	12.6	9.9	6.2	2.5	-.6	-2.1	-1.7	.4	3.5	6.7	9.3

Time meridian 135° W. 0 is midnight, 12 is noon.
 Heights are referred to mean lower low water (M.O.S. chart datum).

BEST COPY AVAILABLE

DECEMBER

Predicted hourly heights in feet

Day	Hours 0/12	Hours 1/13	Hours 2/14	Hours 3/15	Hours 4/16	Hours 5/17	Hours 6/18	Hours 7/19	Hours 8/20	Hours 9/21	Hours 10/22	Hours 11/23
1 M	10.9 14.9	11.2 14.3	10.4 12.3	8.5 9.1	6.1 5.1	4.0 1.1	2.9 -1.8	3.5 -3.0	5.5 -2.0	8.5 .5	11.6 3.9	13.9 7.2
2 Tu	9.8 14.5	11.2 15.1	11.4 14.1	10.3 11.8	8.2 8.2	5.7 4.0	3.7 .1	3.0 -2.5	4.0 -3.2	6.4 -1.8	9.5 1.0	12.5 4.5
3 W	7.7 12.9	10.1 14.5	11.3 14.8	11.2 13.6	9.9 11.0	7.8 7.3	5.4 3.2	3.7 -4	3.3 -2.6	4.6 -2.8	7.2 -1.2	10.2 1.8
4 Th	5.1 10.5	8.1 12.8	10.2 14.1	11.1 14.1	10.9 12.7	9.5 10.1	7.4 6.6	5.2 2.9	3.8 -3	3.7 -2.1	5.1 -2.1	7.6 -3
5 F	2.5 7.8	5.6 10.2	8.3 12.2	10.1 13.1	10.9 13.0	10.6 11.7	9.2 9.3	7.3 6.2	5.3 2.8	4.0 .1	4.1 -1.3	5.5 -1.0
6 Sa	.7 5.5	3.3 7.5	6.0 9.5	8.3 11.1	9.9 11.9	10.6 11.8	10.4 10.7	9.1 8.7	7.3 6.0	5.4 3.1	4.3 .8	4.3 -3
7 Su	.1 4.4	1.7 5.3	4.0 6.8	6.4 8.4	8.4 9.7	9.9 10.5	10.6 10.6	10.4 9.9	9.3 8.3	7.5 6.0	5.6 3.5	4.5 1.6
8 M	.7 4.4	1.2 4.1	2.6 4.6	4.6 5.7	6.7 7.0	8.6 8.3	10.1 9.2	10.8 9.7	10.6 9.4	9.5 8.1	7.6 6.2	5.7 4.1
9 Tu	2.4 5.6	1.8 4.1	2.1 3.5	3.4 3.7	5.2 4.5	7.1 5.8	9.0 7.2	10.5 8.4	11.2 9.2	10.9 9.1	9.6 8.1	7.6 6.5
10 W	4.7 7.4	3.3 5.2	2.6 3.5	2.9 2.6	4.1 2.6	5.8 3.4	7.8 4.8	9.7 6.5	11.1 8.0	11.7 9.0	11.1 9.1	9.5 8.3
11 Th	6.8 9.2	5.2 6.8	3.9 4.4	3.3 2.5	3.5 1.5	4.7 1.5	6.5 2.6	8.6 4.4	10.5 6.4	11.8 8.1	12.0 9.1	11.1 9.2
12 F	8.5 10.8	7.1 8.6	5.5 6.0	4.3 3.3	3.7 1.4	4.1 .5	5.4 .9	7.4 2.4	9.6 4.5	11.4 6.7	12.3 8.5	12.1 9.4
13 Sa	9.5 11.9	8.7 10.2	7.2 7.7	5.6 4.8	4.4 2.1	3.9 .3	4.6 -2	6.3 .7	8.5 2.7	10.6 5.1	12.1 7.4	12.6 9.0
14 Su	9.8 12.6	9.7 11.5	8.7 9.4	7.1 6.5	5.4 3.4	4.3 .9	4.2 -6	5.3 -5	7.3 1.1	9.5 3.4	11.5 6.0	12.6 8.2
15 M	9.6 12.8	10.1 12.4	9.7 10.8	8.5 8.3	6.7 5.2	5.1 2.1	4.2 -1	4.6 -9	6.1 -2	8.3 1.8	10.5 4.4	12.1 7.0
16 Tu	8.9 12.6	10.1 12.8	10.2 11.8	9.5 9.8	7.9 7.0	6.1 3.8	4.7 1.0	4.3 -7	5.2 -8	7.0 .5	9.3 2.9	11.3 5.5
17 W	7.9 11.9	9.5 12.7	10.3 12.4	10.1 11.0	9.0 8.7	7.3 5.6	5.6 2.6	4.5 .2	4.6 -8	5.9 -3	8.0 1.5	10.2 4.0
18 Th	6.6 10.9	8.7 12.2	9.9 12.5	10.3 11.8	9.7 10.0	8.3 7.4	6.6 4.4	5.1 1.7	4.6 -2	5.1 -6	6.7 .5	8.9 2.6
19 F	5.2 9.6	7.5 11.3	9.2 12.1	10.1 12.0	10.0 10.8	9.1 8.8	7.6 6.1	6.1 3.4	4.9 1.1	4.8 -2	5.7 .0	7.5 1.5
20 Sa	3.8 8.1	6.2 10.0	8.2 11.2	9.5 11.7	10.0 11.1	9.6 9.7	8.6 7.6	7.1 5.1	5.7 2.6	4.9 .8	5.1 .2	6.3 .9
21 Su	2.6 6.7	4.9 8.4	7.1 9.9	8.8 10.8	9.7 10.9	9.9 10.1	9.3 8.7	8.2 6.6	6.7 4.4	5.5 2.2	4.9 .9	5.4 .8
22 M	1.9 5.5	3.8 6.8	6.0 8.3	7.9 9.5	9.2 10.0	9.9 9.9	9.8 9.2	9.1 7.8	7.9 6.0	6.4 3.9	5.2 2.2	4.9 1.3
23 Tu	1.6 4.6	3.0 5.2	4.9 6.4	6.9 7.6	8.6 8.6	9.6 9.1	10.1 9.1	9.9 8.5	9.0 7.4	7.6 5.7	6.1 3.9	4.9 2.5
24 W	2.0 4.4	2.6 4.0	4.0 4.5	5.9 5.5	7.7 6.6	9.2 7.6	10.2 8.3	10.5 8.5	10.1 8.2	9.0 7.2	7.3 5.8	5.6 4.2
25 Th	3.1 5.1	2.8 3.7	3.4 3.1	4.8 3.4	6.6 4.3	8.4 5.5	9.9 6.7	10.8 7.8	11.1 8.4	10.4 8.3	9.0 7.4	7.0 6.1
26 F	4.7 6.6	3.7 4.4	3.5 2.7	4.1 1.8	5.4 1.9	7.2 2.9	9.1 4.4	10.6 6.1	11.6 7.6	11.7 8.5	10.7 8.6	8.9 7.9
27 Sa	6.7 8.8	5.3 6.1	4.3 3.5	3.9 1.4	4.4 .3	5.8 .4	7.7 1.7	9.8 3.6	11.5 5.9	12.5 7.7	12.3 8.9	11.0 9.2
28 Su	8.5 11.3	7.3 8.7	5.8 5.6	4.5 2.4	4.0 .0	4.5 -1.2	6.0 -9	8.2 .8	10.6 3.3	12.4 6.0	13.3 8.2	12.9 9.5
29 M	9.8 13.3	9.1 11.4	7.7 8.5	6.0 4.9	4.4 1.3	3.8 -1.4	4.4 -2.5	6.2 -1.8	8.8 .4	11.4 3.4	13.2 6.4	13.9 8.7
30 Tu	10.1 14.4	10.4 13.6	9.6 11.4	7.9 8.0	5.8 4.0	4.0 .2	3.4 -2.4	4.3 -3.2	6.5 -2.1	9.3 .5	12.0 3.8	13.9 7.0
31 W	9.4 14.2	10.7 14.7	10.8 13.6	9.7 11.1	7.7 7.4	5.3 3.1	3.5 -7	3.1 -3.1	4.3 -3.5	6.7 -1.9	9.8 1.1	12.5 4.5

Time meridian 135° W. 0 is midnight. 12 is noon.
Heights are referred to mean lower low water (N.O.S. chart datum).

TIDE TABLES

Advance information relative to the rise and fall of the tide is given in annual tide tables. These tables include the predicted times and heights of high and low waters for every day in the year for a number of reference stations and differences for obtaining similar predictions for numerous other places.

Tide Tables, Central and Western Pacific Ocean and Indian Ocean.

Tide Tables, East Coast of North and South America (Including Greenland).

Tide Tables, Europe and West Coast of Africa (Including the Mediterranean Sea).

Tide Tables, West Coast of North and South America (Including the Hawaiian Islands).

TIDAL BENCH MARKS

To provide permanent points for the observed heights of the tide and the tidal datum planes determined therefrom, a system of bench marks is established at each tide station. The descriptions and elevations of these bench marks along our coast are compiled, published, and available for distribution. Requests for such bench mark data should specify the coastal locality for which the information is desired.

TIDAL CURRENT TABLES

Accompanying the rise and fall of the tide is a periodic horizontal flow of the water known as the tidal current. Advance information relative to these currents is made available in annual tidal current tables which include daily predictions of the times of slack water and the times and velocities of strength of flood and ebb currents for a number of waterways together with differences for obtaining predictions for numerous other places.

Tidal Current Tables, Atlantic Coast of North America.

Tidal Current Tables, Pacific Coast of North America and Asia.

TIDAL CURRENT CHARTS

Each publication consists of a set of 12 charts which depict, by means of arrows and figures, the direction and speed of the tidal current for each hour of the tidal cycle. The charts, which may be used for any year, present a comprehensive view of the tidal current movement in the respective waterways as a whole and also supply a means for readily determining for any time the direction and speed of the current at various localities throughout the water areas covered. The Narragansett Bay tidal current chart is to be used with the annual tide tables. The other charts require the annual tidal current tables.

Tidal Current Charts, Boston Harbor.

Tidal Current Charts, Charleston Harbor, S.C.

Tidal Current Charts, Delaware Bay and River.

Tidal Current Charts, Long Island Sound and Block Island Sound.

Tidal Current Charts, Narragansett Bay.

Tidal Current Charts, Narragansett Bay to Nantucket Sound.

Tidal Current Charts, New York Harbor.

Tidal Current Charts, Puget Sound, Northern Part.

Tidal Current Charts, Puget Sound, Southern Part.

Tidal Current Charts, San Francisco Bay.

Tidal Current Charts, Upper Chesapeake Bay.

Tidal Current Charts, Tampa Bay.

TIDAL CURRENT DIAGRAMMS

The tidal current diagrams are a series of 12 monthly diagrams to be used with the tidal current charts to give the user a convenient method to determine the current flow on a particular day.

Tidal Current Diagrams for Long Island Sound and Block Island Sound.

Tidal Current Diagrams for Boston Harbor.

Tidal Current Diagrams for New York Harbor.

Tidal Current Diagrams for Upper Chesapeake Bay.

ASTRONOMICAL DATA, 1986

January			February			March			April		
d.	h	m	d.	h	m	d.	h	m	d.	h	m
E	3	07 ..	☉	2	04 41	P	1	10 ..	S	1	08 ..
☉	3	19 47	P	4	16 ..	☉	3	12 17	☉	1	19 30
P	8	07 ..	S	5	21 ..	S	5	03 ..	E	8	03 ..
S	9	13 ..	☉	9	00 55	☉	10	14 52	☉	9	06 08
☉	10	12 22	E	12	11 ..	E	11	20 ..	A	13	12 ..
E	16	03 ..	☉	16	19 55	A	16	19 ..	N	15	15 ..
☉	17	22 13	A	16	22 ..	☉	18	16 39	☉	17	10 35
A	20	01 ..	N	19	23 ..	N	19	07 ..	E	22	14 ..
N	23	15 ..	O	24	15 02	O	20	22 03	O	24	12 46
O	26	00 31	E	26	18 ..	E	26	03 ..	P	25	18 ..
E	30	12 ..				O	26	03 02	S	28	15 ..
						P	28	14 ..			

May			June			July			August		
d.	h	m	d.	h	m	d.	h	m	d.	h	m
☉	1	03 22	E	1	14 ..	A	4	08 ..	N	2	14 ..
E	5	09 ..	A	7	02 ..	N	6	08 ..	☉	5	18 36
☉	8	22 10	☉	7	14 00	☉	7	04 55	E	9	17 ..
A	10	23 ..	N	9	03 ..	E	13	12 ..	☉	13	02 21
N	12	21 ..	☉	15	12 00	☉	14	20 10	S	16	03 ..
☉	17	01 00	E	16	07 ..	P	19	20 ..	P	16	17 ..
E	19	23 ..	P	21	13 ..	S	19	20 ..	O	19	18 54
O	23	20 45	O	21	16 30	O	21	10 40	E	22	12 ..
P	24	03 ..	O	22	03 42	E	26	04 ..	☉	27	08 38
S	26	00 ..	S	22	10 ..	☉	28	15 34	A	28	15 ..
☉	30	12 55	E	28	20 ..	A	31	21 ..	N	29	21 ..
			☉	29	00 53						

September			October			November			December		
d.	h	m	d.	h	m	d.	h	m	d.	h	m
☉	4	07 10	E	3	07 ..	☉	2	06 02	☉	1	16 43
E	5	23 ..	☉	3	18 55	P	4	02 ..	P	2	11 ..
☉	11	07 41	P	7	10 ..	S	5	21 ..	S	3	07 ..
P	12	00 ..	S	9	15 ..	☉	8	21 11	☉	8	08 01
S	12	09 ..	☉	10	13 28	E	12	11 ..	E	9	16 ..
O	18	05 34	E	16	05 ..	O	16	12 12	O	16	07 04
E	18	21 ..	O	17	19 22	N	19	20 ..	N	17	01 ..
☉	23	07 59	A	23	06 ..	A	19	22 ..	A	17	05 ..
A	25	10 ..	N	23	13 ..	☉	24	16 50	O	22	04 02
☉	26	03 17	☉	25	22 26	E	27	03 ..	☉	24	09 17
N	26	05 ..	E	30	17 ..				E	24	11 ..
									S	30	17 ..
									P	30	23 ..
									☉	31	03 10

LUNAR DATA:

- ☉ - new Moon
- ☉ - first quarter
- ☉ - full Moon
- ☉ - last quarter
- A - Moon in apogee
- P - Moon in perigee
- N - Moon farthest north of Equator
- E - Moon on Equator
- S - Moon farthest south of Equator

SOLAR DATA:

- ☉ - March equinox
- ☉ - June solstice
- ☉ - September equinox
- ☉ - December solstice

Greenwich mean time (GMT) or universal time (UT) is the mean solar time on the Greenwich meridian reckoned in days of 24 mean solar hours written as 00^h at midnight and 12^h at noon. To convert the above times to those of other standard time meridians, add 1 hour for each 15° of east longitude of the desired meridian and subtract 1 hour for each 15° of west longitude. This table was compiled from data supplied by the Nautical Almanac Office, United States Naval Observatory.

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